

Curriculum Vitae

Dasandlavasanth Rao

In-charge Computer centre
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Date of Birth: 06-08-1980



Education Qualifications

Bachelor of Computer Applications,2002	Kakatiya University, Warangal.
M.Sc (Information Systems), 2004	Osmania University, Hyderabad.
M.Phil (Computer Science) 2008,	Directorate of Distance Education, MaduraiKamaraj University, Madurai.
M.Tech (CSE) 2011,	Osmania University, Hyderabad.
UGC-NET 2012,	Computer Science and Applications for Assistant Professorship

Employment details

System Engineer , Dr.B.R.Ambedkar Open University, Hyderabad.	20-January-2020 to till date
Computer Programmer ,Dr.B.R.Ambedkar Open University, Hyderabad	25-May-2006 to 20-Jan-2020
Junior Lecturer , St.Mary's Centenary Junior College, Secuderabad, Hyderabad.	June-2005 to 23-May-2006

Present Job Responsibilities

- Planning and development of software for the University (Requirement analysis, design, coding, testing, deployment and maintenance)
- Database maintenance (Planning, Creating, Securing and backup)
- Maintenance of IT equipment (LAN, Internet, Servers, Computers and other computer related equipment)

Additional Responsibilities

In-Charge Computer Centre

02-March-2018 to Till Date

Responsible for the Administrative work of the Computer Centre in addition to the Programming and database maintenance.

Assistant Nodal Officer for AISHE

September-2013 to Till Date

“All India Higher Education Survey” MHRD Survey Project for upload University admissions, result and other information to MHRD portal.

Software development and maintenance activities

In addition to routine work like programming, database and infrastructure maintenance of the University, I am leading the in-house software development team of the University. I have developed the following projects with the guidance of Technical Advisor and with the help of Computer Programming Assistants.

- 1) Internal web Application works within the University, for Student services including student data corrections, Marks memos printing with proper authentication levels using Java, MySql and Oracle databases.
 - Consolidated Marks Memo for UG Programmes (2006-07) ***
 - Original Degree Certificate printing and migrated data of already issued certificate from documents to database. (2007) ***
 - PG/Diploma/Certificate Programmes certificate printing. (2013-14) ***
- 2) Prepared internal online programmes for Fee Collection through SBH Challan System (2007-2012) : To overcome problems in fee collection through postal stickers and DDs, SBH Challan systems was introduced in 2007.
- 3) I was acted as liaison officer for DPR Preparation for the University Software development with CGG (2009-11)

- 4) I was processed B.Ed/B.Ed(Special Education)/M.Ed entrance test results using Forms Rec software (2012).
- 5) Online applications for Admission registration, Examination registration and online fee collection using AP/TS online centres and SBI Payment gateway. The Online Application development team developed applications under my supervision using .NET and SQLServer. (2012 to 2015) ***
- 6) Developed application integration using Java web service and windows services for data exchange between internal confidential servers and online servers to maintain data consistency.***
- 7) Involved in the application and site testing along with STQC team for online application testing. Developed IT policies for the Application testing. Application testing completed in 2014 August to get payment gateway integration.
- 8) Integrated AP Online Payment gateway with the University Online services to collect various type of fees through AP/TS Franchise Centre. (2013). ***
- 9) Integrated SBI Payment gateway with the University Online services to collect various type of fees through Debit/Credit Cards. (2014). ***
 - Payment gateway updated and reintegrated after merger of SBH to SBI in 2018
- 10) Prepared role based internal applications(Control Panel) in parallel to the Online services. The University employees attend Student Services using this application. (2014) ***
- 11) Developed online application to allow student to download Memos online (Year wise Marks memos, Semester memos). The University is not printing the following certificates and allowed to download the same from the University www.braouonline.in ***
 - Download Hall ticket from 2015
 - Download Memos from 2015
 - ID Cards from 2017
- 12) Developed Online Application and Registration forms for the registration of Certificates(CMM, OD, TC, Migration) after completion of course. Students can apply their certificates from home instead of visiting the University from far places(2017) ***
- 13) Prepared online application to conduct B.Ed/B.Ed(SE) counselling to avoid delay in completion of admissions. The University is able to provide Admission No, ID cards on the spot of the counselling . (2018) ***
- 14) Developed software for upload certificates to Digital Locker. This software facilitated the exam branch to upload copy of the certificate to the University Digital Locker. The Student can refer his/her certificate by preparing their own Digital Locker with Aadhar number.
- 15) Prepared ICT policy for the University with the help of Prof.P Krishna Reddy, IT Advisor and draft submitted to the University authorities for corrections and further discussions.
- 16) Developed the web portal to upload Video/Audio lessons for the student download and viewing purpose. (2018-19). ***

(*** Applications are in use, ** Testing)

IT infrastructure planning, installation and maintenance

- 1) Worked on IBM System P5 Server (2007 to 2016)
- 2) Prepared specification for the servers through APTS : Prepared requirements, plan and specifications for the purchase of Servers, Computers and Other Computer related equipment through APTS. I have co-ordinated with APTS officials for the purchase of the same. (2009)
- 3) Prepared specifications and monitored activity of installation of WiFi at Science and Technology Multi functional Laboratory (STML) building in 2009 with Cisco Access points and Control engine.(2009)
- 4) Coordinated with NME-ICT project with BSNL and NIC for the installation of Router, Firewall and LAN switches in the Campus. (2009)
- 5) Prepared specifications for and purchase of two high end servers for the online services and co-located the same to STPI data centre to provide uninterrupted online services to the students.www.braouonline.in is deployed on the same servers.
- 6) Site testing and Penetration tests were prepared with the help of STQC (Standardization Testing and Quality Certification) Govt. India and Zoom Technologies (2014)
 - Server security vulnerabilities test
 - Penetration test
 - Physical conditions/ environmental tests
- 7) Conducted training programme to the Study Centre staff in collaboration with Student Service Branch and CSTD
 - Training to Study Centre staff on Online Admissions and Mobile utilization for the Admissions (2013)
 - Training to the non-teaching staff on Online Services and employees role (2017)
- 8) Designed firewall rules to protect the University data from unauthorized access
 - Replaced Cisco Pix firewall with Cyberoam-1000i in 2009 and prepared a new rule set for the firewall.
 - Replaced Cyberoam-1000i with Cyberoam-100i and shifted Cyberoam-1000i to STPI data Centre to provide better security to BRAOU server. Prepared firewall to firewall rules from STPI data Centre and BRAOU campus to download/upload data from the servers co-located to STPI and vice-versa.
 - Reviewed firewall rules in 2015 after the failure of Cyberoam-1000i firewall at STPI data centre. Firewall service was hired from the STPI to replace Cyberoam-1000i
 - Update Cyberoam-100i firewall with Sophos for better security in 2018

9) I have convened Technical Expert Committee meeting for the improvement of IT Infrastructure of the University. After I took charges as In-Charge Computer Centre on 02-03-2018, I have conducted the following meetings

- An Expert committee meeting was held on 03-03-2018 to discuss IT policy for the University. Policy drafted and submitted for the approval of authorities.
- An Expert committee meeting was held on 18-08-2018 to discuss and finalize specifications for purchase of servers.
- An Expert committee meeting was held on 30-06-2019 to discuss alternative methods to run online services mainly Own infrastructure Servers Vs Cloud service.

Major Projects successfully completed

1) I was a member in **Fee collection using SBH online challan system** execution team, which was introduced in 2007 and it was in force till 2012. This benefited the University to remit Fee collection amount immediately to the University bank account. In case of fee collection through Demand drafts it took lot of time to credit the amounts in University account. The University was able to distribute course material(Books) to the Students immediately due to SBH Online Challan System which allowed to generate address labels instantly.

Back ground: The University has depended on Postal Stickers and Demand Drafts to collect various fees from the students, this was created lot of problems related to reconciliation fee with student strength. Depositing the fee amount collected with the postal stickers took long time to deposit.

Team : Myself, Bank Officers , Director Student Services, Deputy Registrar.

2) **Online portal(braouonline.in)** for Admission registration, Examination registration and online fee collection using AP/TS online centres and SBI Payment gateway. The Online Application development team including myself worked under the supervision of Late Prof. P Subba Reddy, I.T Advisor until 03-March-2015. Then I have taken complete responsibility of completing remaining applications developments and new applications as per the requirement of the University.

Software used for the project development .NET and SQLServer.

Key features of the project:

- Stateless application.
- Candidate/Certificates verification done by simple SMS
- Payment integration with Citizen Service Centres (AP/TS Online Centre /Mee Seva)
- Payment integration with SBI payment gateway to allow payments with Debit/Credit Cards.
- Economic model of development and robust mechanics in service integration

Team: Technical advisor, Myself and Computer Programming Assistants(CPA)

3) **Online registration for Certificates and other services** to achieve major goal of the University “**Education at your door step**”, was developed by our team with the help of Prof. P Krishna Reddy, IIT, Hyderabad and IT Advisor to enable students to request their various certificates (Consolidate Marks Memo, Original Degree, Transfer Certificate and Migration certificate) and to pay required fee thereof through AP/TS Online and Debit/Credit cards. This application enables the Students to apply for their certificates online and need not come to the University from far places of the state to get certificates. The University prints certificates by verifying their complete details including no-dues. The student will get status information to their mobile i.e, receipt the application, receipt of payment, the status of certificate printing and dispatch of the same. This project reduces the expenditure of students to get their certificates.

Working knowledge in Software Technologies

- Oracle 11g, MySQL, SqlServer databases.
- Java, JSP, Servlets.
- Windows Server 2012 Operating Systems (Application deployment, IIS server Configuration and trouble shooting)
- Knowledge in .NET Project Deployment and maintenance
- Software Architecture
- Installation, Application Configuration and troubleshooting knowledge in Linux Operating System.

Professional Development Trainings/ workshops attended

- Five day training programme on **Windows Server Administration (04 – 08 March 2013)** at Engineering Staff College of India.
- Attended Easy Now workshop conducted by GRADE with the help of CEMCA (August-2008)
- Two day workshop on **e-Learning- Brihaspati Software (02-03 March 2012)** at Dr.B.R.Ambedkar Open University conducted by GRADE.
- Completed **Windows Server 2012 Administration** course at Zoom Technologies March & April 2018.
- Attended one day workshop for AISHE data upload at MHRD, new Delhi
- Attended training program conducted by the RedCross Society on Blood Donation Mobile App at Raj Bhavan (09-01-2020)

References

- 1) Prof. V Chandrasekhar Rao,
Retired Professor of Library Science , Dr.BRAOU

Former In-Charge Computer Centre, Dr.BRAOU.

Mobile: 9492049027.

- 2) Dr. P Krishna Rao
Retired Joint Director (SS), Dr.BRAOU Mobile :9848489482
- 3) Prof. P Krishna Redddy
Professor of Computer Science, IIIT Hyderabad
Mobile: 9849329324.
- 4) Prof C.Venkataiah
Retired Professor of Public Administration , Dr.BRAOU

Future work plans

- 1) Planning to replace existing payment gateway with MOPS payment gateway and planning to implement customized POS machine at study Centre for fee collection.
- 2) **Audio/Video course material:** Uploading audio/video course materials to the web to allow students to download whenever they require with proper permissions with Admission number and OTP. Linking Audio/Video resources to Unit/Chapter/Topic wise to avoid confusion to the Student.
- 3) **NAD** application development for certificate data upload to NAD
- 4) Helping the teachers to participate in **e-Learning** using Moodle/Swayam.
- 5) Planning to develop or customize and implement available **accounting package** in the Finance branch to automate all the activities of the branch.
- 6) Planning to develop software for material management
- 7) Building a robust infrastructure for the University with the latest hardware and software (latest Servers/ VMware/ Hyperview and backup tools). This is for next 7 years.
- 8) Preparation of **Web counselling** for B.Ed/B.Ed(Special Education) to facilitate the students to exercise their options from their homes.
- 9) Helping the faculty to prepare data for NAAC accreditation.