
EDUCATION***Master of Science in Business Analytics***, Rady School of Management

University of California, San Diego, CA

Courses:

- Business Analytics: Decision analysis, Statistical inference, Simulation modeling, Regression analysis, Optimization
- Collecting and Analyzing Large Data: Data Visualization, Report Generation, Basic Predictive Models, Deep Learning
- AI assisted Customer Analytics, Product Strategy for Innovation and Technology, Machine Learning models, Customer Experience

Bachelor of Engineering in Electronics

Nagpur University, Maharashtra, India

EXPERIENCE

Senior Systems Engineer, DNAe Electronics, San Diego

May 2023 to September 2024

Pioneer in semiconductor sequencing technology (NGS)

- Gathered insights to refine user needs, product requirements, and hardware-software integration, aligning product goals with commercial and engineering teams
- Applied MBSE methodologies to enhance product architecture and ensure seamless integration with cross-functional engineering efforts
- Created automated regression tests in Python to monitor the alpha prototype's quality, facilitating smoother product iterations.
- Worked with stakeholders and customers to align product development priorities and specifications, contributing to roadmaps and future enhancements.

Systems Engineer, Philips, San Diego

August 2021 to March 2023

Philips Respironics sell products catering to Sleep Apnea and Ventilators

- Used MBSE to align system requirements and test protocols to address FDA compliance gaps. Collaborated cross-functionally with engineering, regulatory, and marketing teams.
- Led issue resolution efforts for the V60 ventilator in ICU environments while collaborating with Hospitals, saving significant costs.
- Wrote and maintained detailed verification plans, test protocols and traceability matrices for transparent communication with technical and non-technical stakeholders.

Senior Software Engineer, ResMed, San Diego

Sep 2018 to Jan 2021

Connected Care for Sleep Apnea and ventilators

- Supported the DevOps team in migration to AWS and creation of CI/CD pipeline using Terraform.
- Contributed in the teams transition to serverless architecture while using EC2, S2 and Lambda
- Improved the Verification process of the connected care data platform with evolving microservices and custom websites by writing test automation scenarios using Selenium, Webdriver and Cucumber (BDD)
- Lead the Production Bug Triage for the product across 20 Software Development scrum teams and created a dashboard for showing Issue statistics, Lead Time Reports and sprint burndown chart

Systems Engineer, Sonant Corporation, San Diego

Sep 2018 to Jan 2021

Organization that creates IVR systems, Websites and Webservices for Government

- Developed Restful & SOAP web-services in C# and Node.js
- Redesigned the database to move to a multi-tenant cloud architecture
- Developed the Notification system to send SMS, Voice (Outbound Calls) and Emails in Node.js
- Create Test-Automation while re-engineering the IVR system from Dialogic (a legacy hardware-centric system) to VoIP system using SIP protocol

Senior Software Engineer, Tata Consultancy Services

Jan 2013 to Nov 2004

IT services, consulting and business solutions organization that has partnered with many of the world's largest businesses

- Worked as a consultant for various sectors like Banking (Trade Finance in Deutsche Bank), Retail (Sommerfield) and Insurance (Superpartners) both as a customer facing Business Analyst and Web Developer.
- Played a critical role in data modeling for applications using data warehouse and database
- Developed ETL jobs using SAS Data Integration Studio
- Developed reports using SAS Web Report Studio
- Involved in Requirements gathering, analysis, detailed design and effort estimates for creating Web Applications using Java, HTML and JSP

SPECIALIZED SKILLS

- **Languages/Coding:** Python, SQL (Advanced), ETL, A/B Testing, Java, JavaScript, Nodejs, TensorFlow and PyTorch
- **Operating Systems:** Microsoft Windows, Excel (Advanced), Access (Intermediate), Oracle, Linux
- **Tools:** MBSE, SAS BI Studio, Tableau, CRM, Power BI, SQL Developer, Selenium, Cucumber, JMeter, AppDynamics
- **Certifications:** SAS, SQL Programming, AWS

PROFESSIONAL AFFILIATIONS & LEADERSHIP

- Member: Rady Data Analytics Club; Rady Product Management Club 2024-Present