SUBBALAKSHMI MANDAPAKA

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EDUCATION

Master of Science, Computer Science

University of Texas Rio Grande Valley
GPA: 4.0 GRAD: DEC 2021

Bachelor of Technology, Computer Science & Engineering
Jaypee University of Engineering and Technology
GRAD: JUN 2015

TECHNICAL SKILLS

Languages

Python, C#, Java, JavaScript, jQuery, HTML, CSS, SQL, ASP .Net Core MVC, Angular, React, React Native

Concepts

Microservices, REST APIs, SOAP, HTTP, LDAP, Responsive Web Design, Agile SDLC, CI/CD, Azure DevOps, Microsoft Azure, AWS, Power BI, PowerApps, Machine Learning, Data Visualization Analytics, Deep Learning

Technologies and Frameworks

Bootstrap, Node.js, Express.js, Java Spring MVC, MongoDB, MS SQL, MySQL, iOS and Android mobile app development, Docker, Kubernetes, Kafka, NGINX, Redis, Elasticsearch, Windows Server, SharePoint, Qualtrics, Google Analytics, NLog, Splunk, Pandas, Numpy, Scikit-learn, TensorFlow, Keras

Tools

Git, Jenkins, Adobe, Figma, Jupyter Notebook, MATLAB, Hadoop, Linux

HONORS AND ACHIEVEMENTS

- Grace Hopper Scholar 21, 22
- Winner, Tech Lead HSI Battle of the Brains National Competition
- Kennedy, IWB Scholarship Recipient
- Winner, Big Idea Competition

STRENGTHS

| Problem Solving | Quick Learner |
| Result-Oriented | Analytical Skills |

WORK EXPERIENCE

University of Texas Rio Grande Valley, Enterprise Systems— *Software Engineer* | JAN 22 – Present

- Lead engineer on multiple large-scale application development projects with a university wide user base of over 38,000 users comprising of students, faculty, staff and general public.
- Planned, designed, developed, and delivered over 4 web and mobile based enterprise production applications in a span of about 6 months, exceeding expectations in meeting SLAs in 50% less time while ensuring compliance with regulatory requirements such as web accessibility guidelines and UT System SOPs.
- Spearhead modernization of the technology stack from traditional on-premise servers to cloud-based hosting (Microsoft Azure) making infrastructure scalable for growing campus user needs and also took initiative to upgrade legacy code to the latest .Net Core MVC framework with React front-end, resulting in a 400% increase in coding efficiency and reduction in time to market across the team.
- Forged valuable relationships with customers while capturing their business needs to translate them to technical specifications, conduct business process analysis and create conceptual designs.
- Leveraged tools such as Power BI and Google Analytics to empower end users by providing quick and valuable insights to otherwise complex enterprise data.
- Exhibited advanced technical skills needed to design, develop, modify, test and maintain code in software enterprise systems that make up the campus web services and improved productivity by leveraging Azure DevOps to automate code deployments.

CAPIOT Software Pvt. Ltd, Bengaluru, India — *Software Developer* | MAR 2017 – APR 2018

- Experience as a full stack web developer in a FinTech Startup. Liaised with back-end developers, front-end developers, quality assurance testers, and CTO as needed.
- Collaborated on a cross-functional, agile, multidisciplinary team to convert business needs into technical specifications and high-quality web-based scalable production solutions and mentoring new recruits.
- Spearheaded transition from LAMP to MEAN stack, reducing latency by 40%, and built a microservices-based distributed ERP system using MEAN stack for one of India's largest rural assisted e-commerce platforms.
- Developed an Escrow Deal Management product for various financial institutions and banks using ES6, Angular, Java, Node.js, Mongo DB, RabbitMQ, Elasticsearch, and NLP for parsing various deal definition platforms.
- Managed time-sensitive updates including content changes and backend upgrades while developing a real-time digital payment platform called Streaming Payments Micro Hub using MEAN Stack and Machine Learning.

Cognizant Technology Solutions, Bengaluru, India — *Programmer Analyst* | JAN 2016 –MAR 2017

- Developed and migrated custom SharePoint applications using ASP .Net framework.
- Trained professionally on C#, SQL, ASP .Net, SharePoint, RESTful Web Services, HTML5, CSS3, JQuery, Visual Studio, and SharePoint Designer.

RESEARCH PROJECTS

Deep Learning-based Quality Control Automation Application in Smart Factories -DEC 2021

- A real-time visual quality control automation application in a smart factory prototype using convolutional neural networks (CNN) for object detection and recognition. Implemented model's accuracy achieved 98.72%.

Web Search Engine for information retrieval and query recommendation using Python -JUN 2020

- Implemented using inverted index with query reformulation and content recommendation.

Recommender System using Collaborative Filtering: Prediction on Netflix Prize Data -DEC 2020

- Devised a Recommender System using Collaborative Filtering based on Matrix Factorization with Stochastic Gradient Descent along with a User and Item-Based Nearest Neighbor approach.

CERTIFICATIONS

- **AZ-204: Developing Solutions for Microsoft Azure** – Microsoft | MAR 2022
- **Building Web Applications with React and Redux** – Learning Tree | AUG 2022
- **ITIL 4 Foundation (IT Governance and Service Management)** – PeopleCert | MAR 2022
- **Code Path iOS Mobile App Development –** *CodePath.org* **| APR 2021**

VOLUNTEER WORK AND LEADERSHIP ACTIVITIES

Google Developer Student Club UTRGV - *Technical Lead* | JAN 2020 – DEC 2021

- Organized & mentored various workshops e.g. "Data Viz w/ Python" & "Intro to Machine Learning".

PyLadies RGV - *Organizer & Mentor* | JAN 2020 – Present

- Arranged & curated technical workshops such as "Django Web development with Python".