PAVAN SOMA SHEKAR

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EDUCATION

Northeastern University, Boston, MA

Master of Science in Information Systems

Expected May 2024

SJB Institute of Technology, Bangalore, India

Bachelor of Engineering in Computer Science and Engineering

Jul 2019

TECHNICAL SKILLS

Programming Languages
 Java, Python, HTML, CSS, JavaScript, Typescript

• Web Frameworks and Libraries Angular, React.js, Node.js, Express.js, Spring Boot, jQuery, Bootstrap, Tailwind CSS

Testing Unit Testing, Integration Testing, Jest, Enzyme, Protractor, Jasmine, Mocha, Chai

Databases
 MySQL, MongoDB, DynamoDB, Hibernate, Sequelize.js
 Cloud
 AWS, Azure, GCP, CI/CD, Git, GitHub Actions, Packer, Pulumi

• Data Science Tools and Libraries NumPy, Pandas, Sci-Kit Learn, Tensorflow, MatplotLib, Seaborn, OpenCV

WORK EXPERIENCE

Software Engineer, OnSolve, Bangalore, India

Apr 2022 - Aug 2022

- Enhanced and integrated 12 front-end modules of the OnSolve Platform (OnSolve.UI, Incident Management, Risk Intelligence) using **React.js** and **Redux** to further boost application performance by 15%
- Implemented unit tests for front-end modules employing Jest and Enzyme for React with code coverage of over 90%
- Ensured high quality through stringent code reviews and administered two OnSolve.UI releases via CI/CD with GitHub Actions

Senior Systems Engineer, Infosys Limited, Bangalore, India

Sep 2019 – Apr 2022

- Drove innovation by playing a pivotal role in the development of three Angular-based web applications, effectively addressing
 evolving client needs and resulting in a 30% increase in client engagement
- Contributed to the Smart Classroom project at Infosys by developing a high-accuracy YOLOv3 based chair detection model
 using OpenCV and a MEAN stack-based dashboard, significantly enhancing the interactive learning environment
- Played a key role in workforce development by conducting workshops in JavaScript, Angular, and React.js for 200 employees
 and providing mentorship to 10 new hires in the Foundation Program

Machine Learning Research Intern, Speckbit Exploratories, Bangalore, India

Jan 2019 – Mar 2019

- Devised a Python-based Air Quality Prediction model leveraging the Air Quality Dataset-UCI Machine Learning repository,
 yielding significant advancements in urban air quality forecasting
- Engineered a machine learning suite that accurately predicts urban benzene levels and temperature variations
- Utilized Linear, Lasso and Decision Tree Regression, achieving a 99.6% accuracy in urban air quality monitoring

TECHNICAL PROJECTS

EduAssign (Node.js, Express.js, MySQL, Sequelize, Mocha, Chai, Packer, Pulumi, AWS, GCP) | Northeastern University

- Crafted EduAssign using Node.js/Express.js with Sequelize for MySQL, streamlining assignment management
- Executed CI/CD with GitHub Actions for automated testing (Mocha/Chai) and AMI creation via Packer, enhancing development workflow and deployment
- Augmented the infrastructure using AWS EC2, Lambda, SNS, SES, Route 53 for DNS management and Google Cloud Storage
 employing Pulumi, emphasizing load balancing, auto-scaling and CloudWatch for comprehensive logging and monitoring

FoodZilla, a food delivery web-app (MongoDB, Express.js, React, Redux, Node.js, Firebase) | Northeastern University

- Built 3 out of 6 **full stack** modules using **MERN** stack, such as the auth flows (login, register, forgot password, email verification all using **JWT**), add-to-cart feature, as well as the admin portal for inventory management
- Integrated Stripe API for seamless checkout and the Tasty API for suggesting different recipe options for consumers
- Leveraged **Firebase** as a cloud image store for the product inventory

Event Management System (HTML, CSS, Bootstrap, Java Spring Boot, Hibernate, MySQL) | Northeastern University

- Developed a fully-functional event management system using **Java Spring Boot**, **Hibernate**, and **MySQL**, allowing users to create, manage, and promote events through an intuitive user interface
- Architected the database schema, REST APIs, and front-end views to develop a scalable and maintainable system
- Established robust email notification and image hosting functionality, improving overall user experience and satisfaction

CERTIFICATIONS

- Microsoft Certified AZ-900: Azure Fundamentals, Credential ID H576-2553
- AWS Certified Developer Associate, Validation Number B1LNQCDJYM1EQ6WP