PAVAN SOMA SHEKAR

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EDUCATION

Northeastern University, Boston, MA

Expected May 2024

Master of Science in Information Systems

SJB Institute of Technology, Bangalore, India

Jul 2019

Bachelor of Engineering in Computer Science and Engineering

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
 Databases
 Jest, Enzyme, Protractor, Jasmine, Mocha, Chai
 MySQL, MongoDB, Hibernate, Sequelize

Cloud
 AWS, Azure, GCP, CI/CD, GitHub Actions, Packer, Automated Testing, Pulumi

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

Software Tools and Technologies
 Git, GitHub, Heroku, Anaconda, Jupyter Notebook, Visual Studio Code, Eclipse

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 conceptualizing and developing 3 web applications, meeting emerging client needs using Angular
- Contributed to the Smart Classroom project at Infosys by developing a high-accuracy YOLOv3 chair detection model 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, 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, Spring Boot, Hibernate, MySQL) | Northeastern University

- Developed a fully-functional event management system using 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