

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

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|---|--|
| • 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 | Jest, Enzyme, Protractor, Jasmine, Mocha, Chai |
| • Databases | MySQL, MongoDB, Hibernate, Sequelize |
| • Cloud | AWS, Azure, GCP, CI/CD, Git, GitHub Actions, Packer, Automated Testing, Pulumi |
| • Data Science Tools and Libraries | NumPy, Pandas, Sci-Kit Learn, 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** 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