

PAVAN SOMA SHEKAR

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EDUCATION

Northeastern University, Boston, MA
Master of Science in Information Systems

May 2024

SJB Institute of Technology, Bengaluru, India
Bachelor of Engineering in Computer Science and Engineering

Jul 2019

WORK EXPERIENCE

Software Engineer, OnSolve, Bengaluru, India

Apr 2022 – Aug 2022

- Created the UI for the OnSolve platform, focusing on **responsiveness** and **user experience** using **React.js**
- Boosted the platform's performance by 15% by integrating 3 front-end modules and utilizing **React.js** for **lazy loading** and **code splitting** and **Redux** for **state management** and **memoization**, reducing load times
- Integrated **Spring Boot** backend with **React.js** front-end, enhancing API communication and boosting efficiency by 20%
- Implemented **unit tests** with **Jest** and **Enzyme** for frontend, and **JUnit** for backend, achieving 90%+ **code coverage**
- Ensured high quality through stringent **code reviews** and administered 2 OnSolve.UI releases via **CI/CD** with **GitHub Actions**, seamlessly integrating **Docker** for efficient delivery in containerized environments

Senior Systems Engineer, Infosys, Bengaluru, India

Sep 2019 – Apr 2022

- Drove innovation by playing a pivotal role in the development of 2 **Angular**-based web applications, effectively addressing evolving client needs and resulting in a 30% increase in client engagement
- Engineered a high-accuracy **YOLOv3 chair detection model** for **Smart Classroom** using **OpenCV** and a **MEAN** stack-based dashboard, significantly enhancing the interactive learning environment
- Spearheaded the InfyMansions project, developing **full-stack** modules with **MEAN** stack technologies and integrating **Material UI** for enhanced user interface design
- Formulated a comprehensive testing strategy utilizing **Protractor**, **Jasmine**, and **Karma** frameworks, achieving 90% test coverage for **end-to-end** and **unit testing**
- Played a key role in workforce development by conducting workshops in **JavaScript**, **Angular**, and **React.js** for 200+ employees and **mentored** 10 new hires

ACADEMIC PROJECTS

EduAssign (Node.js, Express.js, MySQL, Sequelize, Mocha, Chai, Packer, Terraform, AWS, GCP) | [GitHub](#)

- Developed EduAssign using **Node.js**, **Express.js**, and **Sequelize** for **MySQL**, enhancing assignment management by 40%
- Utilized **GitHub Actions** for **CI/CD**, **Mocha/Chai** for **integration testing**, and **Packer** for **AMI creation**, which streamlined development, decreased deployment times by 60%, and reduced bugs by 25%
- Augmented **AWS** infrastructure (**EC2**, **Lambda**, **SNS**, **SES**, **Route 53**) with **load balancing**, **auto-scaling**, **CloudWatch**, **SSL certificates**, **GCP** for **GitHub downloads** via **Terraform**, doubling user load capacity and cutting management effort by 70%

FoodZilla, a food delivery web-app (MongoDB, Express.js, React.js, Redux, Node.js, Firebase) | [GitHub](#)

- Built 3 crucial **full stack** modules using **MERN** stack, such as the **auth flows** (login, register, forgot password, email verification, all using **JWT**), **add-to-cart** feature, and **admin portal**, enhancing and securing user registration/login efficiency by 35%
- Integrated **Stripe API** for seamless checkout and the **Tasty API** for suggesting different recipe options for consumers
- Leveraged **Firebase** as a cloud image store, boosting inventory management with 60% faster image retrieval

FlexiQuery (Java, Spring Boot, Elasticsearch, Kafka, Redis, Google OAuth 2.0) | [GitHub](#)

- Optimized large dataset management with FlexiQuery, using **Java**, **Spring Boot** and **ElasticSearch** for query efficiency
- Elevated real-time data freshness and optimized performance by integrating **Kafka** for **synchronization** and **Redis** for **caching** and utilizing **ETag** for enhanced **data integrity**
- Deployed **Google OAuth 2.0**, effectively safeguarding against unauthorized access and fortifying **data privacy**

TECHNICAL SKILLS

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| ● Programming Languages | Java, Python, HTML, CSS, JavaScript, TypeScript |
| ● Web Frameworks & Libraries | React.js, Angular, Node.js, Express.js, Spring Boot, Django, Bootstrap |
| ● Testing | Jest, Enzyme, Protractor, Jasmine, Karma, Mocha, Chai, JUnit |
| ● Databases & Data Management | MySQL, MongoDB, PostgreSQL, Redis, Kafka, Elasticsearch, Hibernate, Sequelize.js |
| ● Cloud | AWS, Azure, GCP, Docker, CI/CD, Git, GitHub Actions, Packer, Terraform |

CERTIFICATIONS

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