PAVAN SOMA SHEKAR

857-869-1951 | Boston, MA |

shekar.p@northeastern.edu

• github.com/pavanshekar | III linkedin.com/in/pavansshekar | ## pavanshekar.github.io/portfolio

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
 React.js, Angular, Node.js, Express.js, Spring Boot, Django, Bootstrap

Testing
 Jest, Enzyme, Protractor, Jasmine, Karma, Mocha, Chai

Databases
 MySQL, MongoDB, PostgreSQL, DynamoDB, Hibernate, Sequelize.js

Cloud AWS, Azure, GCP, Docker, CI/CD, Git, GitHub Actions, Packer, Pulumi

WORK EXPERIENCE

Software Engineer, OnSolve, Bangalore, India

Apr 2022 - Aug 2022

- Created engaging user interfaces for the OnSolve platform, focusing on responsiveness and user experience using React.js
- Boosted OnSolve platform's performance by 15% by integrating 3 front-end modules and employing React.js (lazy loading, code splitting) and Redux for state management and memoization, reducing load times
- Implemented unit tests for front-end modules employing Jest and Enzyme for React.js with code coverage of over 90%
- 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 Limited, Bangalore, 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
- Spearheaded 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
- Contributed to 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 providing **mentorship** to 10 new hires in the Foundation Program

TECHNICAL PROJECTS

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

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

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, handling over 200 events seamlessly
- Architected the database schema, REST APIs, and front-end views to develop a scalable and maintainable system
- Established robust email notification and image hosting, leading to a 10% increase in overall user experience and satisfaction

InventoryHub (Python, Django, PostgreSQL, Heroku) | Northeastern University

- Strategized and implemented a highly resilient **Django REST Framework API**, enforcing data integrity and security with rigorous validation, authentication, and authorization using **Token Authentication**
- Orchestrated the implementation of a scalable database schema using PostgreSQL, optimizing performance and scalability
- Incorporated **Swagger** for automatic API documentation and seamlessly deployed the Django application on **Heroku**, streamlining the development workflow, resulting in a 20% decrease in deployment time

CERTIFICATIONS

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