PAVAN SOMA SHEKAR

☎ 857-869-1951 | Boston, MA | ✉ pavansomashekar97@gmail.com

github.com/pavanshekar | linkedin.com/in/pavansshekar | 🌐 pavanshekar.github.io/portfolio

TECHNICAL SKILLS

● **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
● **Databases & Data Management**	MySQL, MongoDB, PostgreSQL, Redis, RabbitMQ, Elasticsearch, Hibernate, Sequelize.js
● **Cloud**	AWS, Azure, GCP, Docker, CI/CD, Git, GitHub Actions, Packer, Terraform

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
- Implemented **unit tests** for front-end modules using **Jest** and **Enzyme** with 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 download**s via **Terraform**, doubling user load capacity and cutting management effort by 70%

FlexiQuery (Java, Spring Boot, Elasticsearch, RabbitMQ, 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 **RabbitMQ** 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**

InventoryHub (Python, Django, PostgreSQL, Heroku) | GitHub
- Strategized and implemented a highly resilient **Django REST Framework API** for inventory management, 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

EDUCATION

Northeastern University, *Boston, MA*　　　　　　　　　　　　　　　　　　　　　　　　　　**May 2024**
Master of Science in Information Systems

SJB Institute of Technology, *Bengaluru, India*　　　　　　　　　　　　　　　　　　　　　　**Jul 2019**
Bachelor of Engineering in Computer Science and Engineering

CERTIFICATIONS

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