PAVAN SOMA SHEKAR

Boston, MA

☎ 857-869-1951 | ✉ shekar.p@northeastern.edu | ⬤ github.com/pavanshekar | in linkedin.com/in/pavansshekar

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 Competency**   Java, Python, HTML, CSS, JavaScript, Typescript
- **Frameworks and Libraries**   Angular, React.js, Node.js, Express.js, Spring Boot, jQuery, Bootstrap, Tailwind CSS
  NumPy, Pandas, Sci-Kit Learn, MatplotLib, Seaborn, OpenCV
- **Testing**   Jest, Enzyme, Protractor, Jasmine, Mocha, Chai
- **Databases**   MySQL, MongoDB, Hibernate, Sequelize
- **Software Tools and Technologies**   Git, GitHub, Heroku, Anaconda, Jupyter Notebook, Visual Studio Code, Packer
- **DevOps**   AWS, Azure, CI/CD, GitHub Actions, Automated Testing, Integration Testing, Pulumi

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%
- Managed 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**
- Conceptualized, owned and developed 5 brand new web applications using **Angular** across the vertical and architectured POCs to meet emerging client requirements
- Taught 200 new employees **JavaScript**, **Angular**, and **React.js** and led a range of hands-on workshops to fit the educational objectives over the course of 6 months
- **Mentored** 10 new hires by providing actionable feedback on assessments and codes during the Foundation Program at Infosys

Machine Learning Research Intern, *Speckbit Exploratories, Bangalore, India*   **Jan 2019 – Mar 2019**
- Created an **Air Quality Prediction** model on Air Quality Dataset - UCI Machine Learning repository as a part of Roadmaps content development initiative with the help of **Python** and machine learning algorithms
- Designed a prediction model for benzene estimation and temperature variations in urban populations
- Engineered the model utilizing **Linear Regression**, **Lasso Regression** and **Decision Tree Regression** with an accuracy of 99.6%

TECHNICAL PROJECTS

EduAssign (Node.js, Express.js, MySQL, Sequelize, Mocha, Chai, Packer, Pulumi, AWS) | *Northeastern University*
- Crafted EduAssign using **Node.js/Express.js** with **Sequelize** for **MySQL**, streamlining assignment management
- Implemented **CI/CD** with **GitHub Actions** for automated testing (**Mocha/Chai**) and AMI creation via **Packer**, enhancing development workflow and deployment
- Deployed scalable **AWS** infrastructure using **Pulumi**, optimizing resource management for a reliable academic environment

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 independently to develop a scalable and maintainable event management system that meets project requirements
- Implemented robust **email notification** and **image hosting** functionality within the event management system, improving overall user experience and satisfaction

CERTIFICATIONS

- Microsoft Certified **AZ-900: Azure Fundamentals**, Credential ID - H576-2553