SHREESH SHIV YADAV

ssyadav@usc.edu | 213-512-9396 | linkedin.com/in/shreeshyadav | shreeshyadav.github.io

EDUCATION

University of Southern California **Aug 2023-May 2025**
Masters of Science in Computer Science *Los Angeles, California*

- **Coursework:** Back-end Development, Front-end Development, Full-Stack Development, Data Structures, Algorithms, Database Systems, Machine Learning, Operating Systems, Object Oriented Programming.

Vellore Institute of Technology **Jul 2018-Jun 2022**
Bachelors of Technology in Computer Science and Engineering *Vellore, India*

WORK EXPERIENCE

Fidelity Investments **Aug 2022-Jul 2023**
Associate Software Engineer *Chennai, India*

- Spearheaded development of a cloud native web application for handling recurring payments of 500+ institutional clients using Angular, Java Springboot and AWS; gaining **60% reduction** in overall response time.
- Gained near-perfect code coverage of **99%** by implementing Test Driven Development using Junit framework.
- Re-designed micro-services for Enterprise Investment Platform by utilising multi-threaded architecture and Redis for optimising database look-ups **resulting in 3x faster response times**. Incorporated Swagger 3.0 framework to design **20+ API endpoints**, with enterprise standard headers and response codes.

Fidelity Investments **Jan 2022-Jun 2022**
Software Engineer Intern *Chennai, India*

- Built a suppression feature module for regulating 1000+ fund listings on Fidelity's landing website and **increased reliability by 70%** by migrating existing application to Angular, Springboot and Azure Kubernetes Services.
- Contributed to efforts of migrating **6 on premise applications to Azure**, ensuring on-time delivery of projects.

Fidelity Investments **Jun 2021-Jul 2021**
Software Engineer Intern *Chennai, India*

- Engineered micro-services using Java Springboot to **increase efficiency by 20%**, replacing monolithic architecture.
- Modified existing CI/CD pipelines in Jenkins to facilitate migration of application to Azure and incorporated SonarQube, thereby reducing code injection vulnerabilities, code smells and bugs in source code.

ACADEMIC PROJECTS

Smallcase: Trading Platform| *Angular, Springboot, SQL, Junit* **Aug 2022-Oct 2022**

- Developed full-stack web trading platform with features including buying, selling stocks and portfolio dashboard.
- Integrated third party API to fetch real time stock data of 15+ stocks and providing personalised suggestions.

Research Publication| *Machine Learning, Tensorflow, Keras, Matplotlib, IoT* **Dec 2021-April 2022**

- Designed a novel Intrusion Detection System(IDS) for wireless sensor network using Support Vector Machine, Decision Tree, and Gaussian Naive Bayes algorithms, achieving overall **accuracy of 86%** on NSL-KDD dataset.

Image Classification using CNN| *Python, Flask, Numpy, TensorFlow* **Dec 2020-May 2021**

- Built Convolutional Neural Network to classify images from the CIFAR100 dataset and utilized image augmentation techniques to achieve accuracy rates of close to 75%. Used flask to feed images to trained model.

Ebay Catalog Browsing| *Angular, NodeJs, Express, MongoDB, Google Cloud* **Sep 2020-Nov 2020**

- Developed full-stack application for browsing over **1 Million products** on eBay using eBay Developers APIs, Angular, NodeJs, MongoDB and Google Cloud Platform delivering seamless user experience.

TECHNICAL SKILLS

Languages: C++, C, Java, Python, Javascript, Typescript, SQL
Frameworks & Tools: Springboot, Angular, Flask, Express, Swagger, Bootstrap, Numpy, Matplotlib, Junit, Flask, Django, Kubernetes, Docker, Jenkins, Github, Oracle DB, MySQL, Numpy, Pandas, GIT, AWS.

LEADERSHIP AND INVOLVEMENT

- Led efforts to organise blood donation and health awareness camps with participation of 200+ students.
- Secured 3rd place in Hackathon organised by Computer Science and Engineering Department at VIT Vellore.