Shreesh Shiv Yadav

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EDUCATION

University of Southern California **Aug 2023-May 2025**
Masters of Science in Computer Science | *GPA: 3.85/4.0* *Los Angeles, California*

- **Coursework:** Advanced Data Stores, Natural Language Processing, Full-Stack Development, Analysis of Algorithms

Vellore Institute of Technology **Jul 2018-Jun 2022**
Bachelors of Technology in Computer Science and Engineering | *GPA: 9.31/10.0* *Vellore, India*

WORK EXPERIENCE

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

- Tech Stack: **Angular, Springboot, Docker, Kubernetes, Amazon Web Services, JUnit, Python**
- Spearheaded development of scalable, distributed cloud native payments solution for **1k+** clients using **Angular, Springboot and Amazon Web Services (AWS)**; gaining **60% reduction** in overall response time
- Re-designed micro-services for Enterprise Investment Platform by utilising multi-threaded architecture and **Redis resulting in 3x faster response times**. Incorporated **Swagger3.0** framework to design **20+ REST API endpoints**, with enterprise standard headers and response codes
- Gained near-perfect code coverage of **99%** by implementing Test Driven Development using **Junit** framework

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

- Tech Stack: **Azure Kubernetes Service, Docker, Angular, Springboot, Jenkins, Typescript**
- 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.
- Incorporated authentication using Azure Active Directory Single Sign on (SSO), ensuring seamless user experience.

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

- Tech Stack: **Oracle SQL, Angular, Node.js, Express.js, Typescript**
- Engineered micro-services using **Springboot** to **increase efficiency by 20%**, replacing monolithic architecture.
- Modified existing CI/CD pipelines in Jenkins to facilitate migration of application to **AWS** and incorporated **SonarQube**, thereby reducing code injection vulnerabilities, code smells and bugs in source code.

TECHNICAL SKILLS

Skill Sets: Cloud Computing, Full-Stack Web Development, DevOps, API Development, Debugging, Automation
Programming Languages: C++, C, Java, Python, Javascript, Typescript, Swift
Web/App Development: Angular, Node.js, Express.js, Flask, JQuery, HTML, CSS, Nginx, Springboot, SwiftUI
Tools & Technologies: Git, Docker, AWS, GCP, Jenkins, JIRA,MySQL, MongoDB

ACADEMIC PROJECTS

Research Publication| *Machine Learning, Tensorflow, Keras, Matplotlib, IoT, Python, System Architecture* **Aug 2023**

- 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.

Ebay Catalog Browsing| *Angular, Node.js, Express.js, MongoDB, Google Cloud Platform, Swift, SwiftUI* **Aug 2023**

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

Smallcase: Trading Platform| *Angular, Springboot, SQL, JUnit, Typescript* **Nov 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.

Image Classification using CNN| *Python, Flask, Numpy, TensorFlow, Pandas* **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.