Jitendra Vasishta T.S

Seattle, WA (Open to Relocation)
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Education

SYRACUSE UNIVERSITY **August 2022 – May 2024**
Master of Science (M.S) in Computer Engineering *Syracuse, NY*

PESIT BANGALORE SOUTH CAMPUS **August 2015 – May 2019**
Bachelor of Engineering (B.E) in Electronics and Communication *Bangalore, India*

Technical Skills

Programming Languages: Java, C++, Swift, Python, JavaScript, HTML5, CSS, Scala, SQL
Technologies/Frameworks: Rest API, Spring Boot, Swagger, J2EE, JSON, Microservices, Hibernate, Maven, JUnit, JDBC, JPA, Postman, CI/CD, Hadoop, Spark, Kafka, Elasticsearch, Kibana, ELK, PostgreSQL, Redis, Jira, Agile, AWS, GCP, Azure, Docker, Git, React.js, Redux, Figma, MongoDB, Django, FastAPI, Vue.js, Node.js, Express.js, NoSQL, TensorFlow, Pytorch, Numpy, Pandas, SQLAlchemy, Langchain, RAG, LLM

Professional Experience

Aeyesafe **April 2024 – Present**
Software Engineer *Seattle, WA*

- Working as a software engineer at a startup developing the next-generation senior monitoring system.
- Developed high-performance Python APIs using FastAPI and optimized PostgreSQL tables, orchestrating ETL processes on MongoDB.
- Engineered a real-time data pipeline with Kafka and MongoDB, processing 1 million sensor messages per hour and reducing data retrieval time by 50%.
- Integrated room sensors with ETL processes, improving data accuracy and enabling detailed behavioral analysis for elderly care, with 99% uptime and real-time monitoring.

Neustar, A TransUnion Company **July 2019 – July 2022**
Software Engineer *Bangalore, India*

- Led and executed full-stack development for Neustar's OneID products, leveraging Scala, Java, SpringBoot, Python, Django, React.js, Docker and Kubernetes. Enhanced product performance by 25% and streamlined deployment processes with AWS and GCP.
- Spearheaded the enhancement initiative for the Enterprise Data Catalog (EDC), including automating the scanning and indexing of metadata across various on-premises and cloud-based data sources to improve data discovery and curation.
- Architected and implemented the Activation Service, a critical microservice within Neustar's IDaaS suite. This service automates GCP Storage bucket creation and IAM policy generation, streamlining data security and access control.
- Engineered REST APIs for ETL data ingestion, handling millions of requests daily with 95% uptime.

Defence Avionics and Research Establishment, DRDO **January 2019 – June 2019**
Software Development Intern *Bangalore, India*

- Created a cutting-edge aircraft engine health monitoring system using Python, ensuring high performance and reliability through innovative analytics and system design.
- Achieved a 30% increase in accuracy by successfully deploying a neural network trained using backpropagation, enabling precise prediction of the Exhaust Gas Temperature (EGT) parameter of an aircraft engine.

Projects

Agent Optimization in MuJoCo Environments | Jupyter, Python [link] **August 2023 – December 2023**

- Trained agents in MuJoCo environments (Humanoid, Cheetah) using advanced RL algorithms (PPO, SAC, A2C, DQN), achieving a 25% improvement in decision-making by optimizing hyperparameters, reward structures, and learning rates.

RoomieMatch | SwiftUI, Firebase, Java, SpringBoot, MongoDB [link] **January 2023 – May 2023**

- Crafted a revolutionary iOS app to simplify the process of finding roommates, incorporating intuitive and engaging user interaction concepts like Left/Right Swiping and User Matching, inspired by popular applications such as Tinder and Bumble.

Orange Buddy | Java, SpringBoot, Scala, Kafka, Elasticsearch, PostgreSQL [link] **January 2023 – May 2023**

- Pioneered a web application for Syracuse University students to organize schedules and track weather, designing and coding the Schedule Builder component within a microservice architecture. This key component managed data for 5,000+ courses and extracurricular activities, improving scheduling efficiency by 40%.