

Vineet Malewar

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Education

San Jose State University

Aug 2025 – Expected May 2027 | San Jose, CA

Masters of Science in Computer Software Engineering

- **Coursework:** Enterprise Software Platforms, Data Structures and Algorithms, Database Systems, Operating Systems.

National Institute of Technology

Aug 2019 – Jun 2023 | Meghalaya, India

Bachelors in Electronics & Communication Engineering | GPA: 3.83

- **Relevant Coursework:** Introduction to Computing, Computer Architecture, Database Management Systems, Computer Networks, Object Oriented Programming.

Experience

Software Development Engineer - I, Amazon Inc

Dec 2024 - Jul 2025 | Hyderabad, India

- Delivered **Instant Bank Discount** feature by integrating multiple client APIs with two-step verification, **increasing flight bookings** by ~65% and **reducing incorrect payment cases** by 23%.
- Integrated **RedBus API** into **Amazon Pay**, automating database updates to reduce "No Bus Found" errors by ~80% and **eliminating manual intervention**.
- Contributed significantly to **configuration migration from ASSPL to APIPL**, optimizing infrastructure and deployments, achieving **\$228K annual cost savings**.
- **Upgraded Node.js version and modernized EC2 infrastructure**, improving system stability and security, reducing API latency by ~30%, and increasing deployment efficiency by ~40%.
- Built **custom AWS CloudWatch dashboards and alarms**, enabling **real-time system observability**, which reduced incident response time by 35% and improved service uptime by 20%.

Software Development Engineer - I, Brane Enterprises

Jun 2023 - Nov 2024 | Bengaluru, India

- Led the development of scalable data processing pipelines using **Apache Flink**, integrating **Kafka connectors** to handle **millions of events per day** with sub-second latency, **improving real-time analytics efficiency** by ~40%.
- **Optimized complex database queries**, enhancing query performance, reducing data storage costs, and **improving overall efficiency** by 40%.
- **Integrated a third-party payment gateway** into the existing **microservices architecture**, enabling **real-time transaction processing** with **99.99% uptime** and support for over **2k concurrent payment requests**.
- Reduced **production issues** by 40% for critical modules by performing comprehensive **end-to-end testing** and achieving **95% unit test coverage** using JUnit.

Software Development Intern, Studio Technologies

May 2022 – Jul 2022 | Mumbai, India

- Worked on ETL(Extract, Transform and Load) and Data Pipelines with **Shell, Airflow and Kafka**.
- Actively contributed to the design and **implementation of RESTful API** endpoints for the Customer Satisfaction Module, enhancing customer feedback mechanisms and reporting capabilities.

Skills

Languages and Databases: Java, C/C++, HTML, Javascript, SQL (Postgres, MySQL), NoSQL (Redis, MongoDB)

Frameworks and Tech Stack: Spring Boot, Maven, React, Hibernate ORM, JUnit, Mockito, J2EE

Cloud and Devops: AWS, Docker, Kubernetes, Jenkins, CI/CD, Unix/Linux

Tools and Technologies: Git (GitHub, GitLab), Kafka, Apache Flink, Druid, Postman, Elastic Search, Grafana

Others: Design Patterns, SOLID Principles, Distributed Systems, Cloud Technologies, Agile Methodologies

Academic Projects

Hermes Pro | Python, FastAPI, Docker, LlamaIndex, Ollama (Llama 3), AST, Git, Discord

GitHub

- Architected a multi-service, **containerized (Docker)** AI agent in Python/FastAPI to unify siloed data from **2+ developer platforms**, **reducing developer time-to-information** by an estimated 75%.
- Engineered a code-to-graph pipeline using Python's **Abstract Syntax Tree** module and **networkx** to **parse a 15,000+ line codebase** (requests library) into a detailed **Knowledge Graph**, mapping over 290 functions and classes.
- Implemented an advanced **agentic RAG system** using **LlamaIndex** and a local **LLM (Llama 3)**, equipping it with custom tools to autonomously query the knowledge graph in response to natural language commands.
- Built a **real-time conversational interface** via a **Discord Bot** that communicates with the backend through **REST APIs**, providing developers with answers in **under 5 seconds**.

Log Flow and Query | Java, Python, Spring Boot, Apache Kafka, MongoDB, RestAPI

GitHub

- Engineered a robust **log ingestion pipeline** using Kafka and Spring Boot to manage and process **high-volume data streams** from multiple sources into a centralized MongoDB database.
- Implemented an efficient **query system** with advanced **full-text search** and customizable field filters, enabling precise and rapid **data retrieval** through a REST API.