

- Java, Python & Go
- Backend API Development
- Cloud (AWS) & Kubernetes
- Relational & Spatial Databases

Objective: Graduate CS student seeking a Software Engineering role. Passionate about architecting scalable back-end services and distributed systems. Bringing deep proficiency in Java, Python, and Go, with proven experience building high-performance microservices, resolving complex database bottlenecks, and integrating AI workflows for production deployments.

EDUCATION

Master of Science, Computer Science, University of Washington, GPA: 3.7/4.00 Sep 2025 — Present

Coursework: Distributed Systems, Advanced Data Structures, Algorithms, Software Architecture, Parallel Computing

Bachelor of Technology, Information Technology, Pandit Deendayal Energy University, GPA: 8.2/10.00 Sep 2021 — May 2025

Coursework: Object-Oriented Programming, Operating Systems, Database Management, Machine Learning

EXPERIENCE

Software Engineer (Intern) May 2024 — Aug 2024

Level Supermind Mumbai

- Resolved API latency bottlenecks caused by separate database connections by consolidating freeze and regular streak tables into a unified PostgreSQL schema, ensuring optimal data availability.
- Analyzed and optimized core algorithms to reduce computation from quadratic to log-linear time, slashing latency from 1.2s to 150ms to strictly fulfill a 1-second API contract for iOS frontends.
- Packaged scalable architectures via Docker to reliably support 10,000+ concurrent requests, establishing end-to-end backend observability to drive a 30% increase in user engagement.
- Maintained comprehensive operational runbooks for live debugging and 24/7 support across global squads.

Software Engineer (Intern) Jan 2025 — May 2025

Blueinfy Ahmedabad

- Engineered a custom JavaScript Concrete Syntax Tree parser achieving 98% accuracy, integrated with Semgrep's workflow to automate static code analysis across 100k+ lines of Gosu.
- Applied rigorous live debugging to diagnose complex bottlenecks in *nix environments, delivering actionable logic that enhanced security governance and reduced manual audit cycles by 25%.

TECHNICAL PROJECTS

LockIn: Local-First Productivity Engine Python, JavaFX, Local LLMs, Prompt Engineering

- Built a privacy-focused productivity engine integrating offline LLMs (Ollama) to dynamically classify and block in-browser content, leveraging prompt engineering with zero public cloud dependency.
- Engineered a JavaFX desktop app bridging a localhost IPC architecture, optimizing memory management and ethical AI integration to ensure secure, strict sub-180ms processing latency.

Kore: Scalable Microservices Platform Java, AWS, Kubernetes, Terraform, Linux

- Architected a cloud-native microservices backend in Go, provisioning AWS infrastructure via Terraform and orchestrating scalable container deployments on Linux/Kubernetes.
- Engineered declarative CI/CD pipelines and utilized RabbitMQ asynchronous queues to manage service architectures, maintaining resilient performance under heavy load simulation.

Brain Map: Distributed Spatial Mind-Mapping Engine Java, Spring Boot, WebGL, MongoDB, GCP

- Engineered a collaborative, infinite-canvas mapping platform powered by a custom-built Java spatial backend, utilizing Quadtree data structures to efficiently index and query geospatial nodes.
- Architected a secure, local-first storage system with a Spring Boot REST API, integrating Google OAuth and MongoDB while establishing deployment workflows for Google Cloud Platform.

Simian Army: Production Reliability Analysis Python, Docker Swarm, Grafana, Observability

- Developed a Python-based Simian Army suite with microservices via Docker Swarm to validate system resilience under simulated production failures using chaos and load monkeys.

SKILLS

Languages	Java, Python, Go (Golang), C/C++, SQL, JavaScript, Bash/Shell
Frameworks & APIs	Spring Boot, JavaFX, React/WebGL, REST APIs
Cloud & Infrastructure	AWS, Kubernetes, Docker, Linux/UNIX, Terraform
Databases & Tools	PostgreSQL, MySQL, MongoDB, Local LLMs (Ollama), CI/CD, Git

EXTRACURRICULAR & VOLUNTEERING

- **Competitive Programming:** Active algorithmic problem solver on LeetCode (Current Rating: 2000). Solved 400+ complex challenges focusing on distributed systems data structures and graph theory.
- **MG Science College - Bootcamp Lead:** Hosted an intensive coding bootcamp, instructing students on Python, core software engineering principles, and Machine Learning fundamentals.