Harish Jaisankar

Active Top Secret Security Clearance

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Education

University of Michigan — Expected Graduation Dec 2025

BSE in Computer Science, Minors in Mathematics and Multidisciplinary Design — GPA: 3.2

Selected Coursework: Operating Systems, Distributed Systems, Parallel Computing, Computer Architecture, Computer Networks, Data Structures and Algorithms, Machine Learning, Financial Math, Linear Algebra, Probability

Work Experience

Capital One — Jun 2025 – Aug 2025

Software Engineering Intern, TIP — McLean, VA

- Eliminated **18 person-weeks of manual work annually** by building backend APIs that consolidated hierarchical messaging data, enabling 56 engineers to visualize message groups on a self-service platform
- Boosted **reliability by 20%** for high-volume API workflows under rate limits by adding exponential backoff
- Reduced API calls by **80% per workflow** with a Java aggregation endpoint in Capital One's enterprise messaging platform, which processes **1.5B messages/month**, lowering latency and AWS spend
- Prevented 12 pre-release defects and unblocked deployments by writing **83 unit and integration tests** across 5 services, achieving **94% branch coverage**

Northrop Grumman — Jan 2024 – Mar 2025

Software Engineering Intern — Dulles, VA

CI/CD Team

- Cut **product downtime by 30%** by deploying monitoring for 6 Kubernetes clusters with Prometheus & Grafana
- Automated Jenkins pipeline restarts with Groovy, saving **30 minutes daily per engineer**
- Saved an aggregate **100 hours of review per sprint** by automating NIST-compliant security checks

Generative AI Test and Evaluation

- Condensed manual test authoring by **6+ hours/file** by building a Python pipeline for AI-generated unit tests; integrated parsing, routing, and a Dockerized LLM
- Drove adoption across **4 dev teams** by developing an Electron app to submit code and review AI-generated tests
- Reached **80% coverage** in AI-generated tests by optimizing pipeline logic

Trinity Health — May 2023 – Apr 2024

Software Development Intern — Ypsilanti, MI

- Lowered **device misplacement by 65%** by deploying a tracking platform used across 6 departments
- Migrated 85 configuration files from Cube JSON to YAML, saving **35 engineering hours**

Enable Point Inc. — Jul 2022 – Jan 2023

Full-Stack Web Developer — Livonia, MI

- Delivered a digital certification product to paying customers using C#, ASP.NET, and MVC
- Improved large-scale product usability with feature enhancements, **lowering support requests by 12%**

Projects

Cortado | *React, pgvector/FAISS* — Jun 2025 – Present

- Built a dashboard to log coffee chats, notes, and guided reflections with authenticated CRUD and clean, skimmable UI
- Developed embedding-based semantic search over chat notes with **P@5 = 0.70**, **nDCG@10 = 0.75** on a labeled set; **p95 latency = 240 ms** on 2k notes

Automated Resource Approval Tool - Palantir Defense Tech Fellow | *Foundry, AIP* — Dec 2024 – Jan 2025

- Streamlined software approval workflows by auto-triaging requests and surfacing policy gaps to reviewers, reducing back-and-forth and deployment delays
- Created role-based approval tracking with team-specific statuses in Foundry (RBAC + status model)

PairWise | *Python, Pyomo* — Jan 2023 – Apr 2023

- Designed a linear optimization model to match **900** mentors and mentees for my nonprofit in **<2 minutes**
- Under skewed major distributions, optimized matching reassigns 65% of pairs vs. a greedy baseline and **captures 26% more shared interests** while keeping same-major parity or better

Skills

Languages:	Python, Java, Go, C++, TypeScript, SQL	**Web:**	React, Node.js, Flask, ASP.NET MVC, Electron
Cloud:	Lambda, CloudWatch, DynamoDB, Route 53	**DevOps:**	Docker, Kubernetes, Jenkins, Prometheus
Data:	PostgreSQL, Pandas, NumPy	**ML:**	PyTorch, TensorFlow, scikit-learn