ALEXANDER HAMIDI

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EDUCATION

University of California, San Diego — Expected 2026

Bachelor of Science, Computer Science – GPA: 4.00 — *La Jolla, CA*

- Coursework: Deep Learning, Computer Architecture, Machine Learning, Digital Design, Software Engineering
- Extracurriculars: Triton AI, SDx (Startup Accelerator) Competitive Programming Club (ICPC, 2nd Regionally)

EXPERIENCE

Software Development Engineer Intern — May 2025 – Present

AWS — *Seattle, WA*

- Developing scalable automation infrastructure to standardize regional onboarding of AWS services to reduce manual configuration steps by 40% and cut average deployment time by 35% across 20+ regions
- Engineered fault-tolerant deployment workflows using Step Functions and Lambda, with comprehensive monitoring and alerting, increasing success rate of cross-region rollouts from 82% to 97% in internal staging environments

Co-Founder, CEO — March 2025 – May 2025

Declass AI — *La Jolla, CA*

- Scaled a document redaction company to 5-figure contracts, managing B2G relationships and product vision while communicating complex AI capabilities to non-technical stakeholders
- Architected full-stack AI-powered redaction system using Next.js, TypeScript, FastAPI, Supabase, and Claude API, built automated PDF/OCR pipelines with real-time collaboration, access control, and production-ready LLM workflows

Undergraduate Researcher — February 2025 – April 2025

Shang Data Lab (UCSD) — *La Jolla, CA*

- Developed a framework to effectively generate and optimize AI agent workflows by exploring the configuration space with advanced prompt engineering techniques
- Built a production-ready pipeline in C++ to fine-tune Qwen-7b with domain-specific datasets using Group Relative Policy Optimization, Depth-First-Search Decision Tree, and Supervised Finetuning methodologies
- Achieved 7% accuracy and 300% cost improvements over single-LLM systems on diverse agentic benchmarks

Software Engineering Intern — July 2024 – November 2024

University of California, San Diego — *La Jolla, CA*

- Improved student engagement by 12% through algorithmic contributions to TritonGPT, a scalable RAG-powered AI agent providing academic assistance, built with vector databases and NLP processing for 500+ DAU
- Built key Mobile features using Flutter, reducing app latency by 30% and integrating 20+ services for 500+ DAU

Research Assistant — March 2024 – June 2024

Cal State University, Los Angeles — *Los Angeles, CA*

- Leveraged Python and BioPython to integrate ML classifiers capable of analyzing large-scale biochemical datasets, achieving an 87% accuracy rate in predicting oxidation-susceptible protein thiols using PyTorch frameworks
- Built scalable, robust web app for the model, increasing researcher engagement by 30% over existing analysis systems

PROJECTS

Forsite | tryforsite.com | *Next.js, FastAPI, Supabase, pgvector, OpenAI, Redis*

- Built a semantic search engine indexing 20k+ projects from Product Hunt, HN, Reddit, and arXiv using OpenAI embeddings and pgvector; achieved sub-50ms query latency with optimized PostgreSQL filtering and monitoring
- Optimized search engine through advanced prompt engineering and enriched AI queries, enabling 30% more accurate filtering with comprehensive system architecture design

Graphit | graphitapp.com | *React, Spring Boot, MongoDB, AWS EC2, HuggingFace*

- Engineered a graph editor with TypeScript supporting AI-powered generation, querying, and modification using HuggingFace Transformers, with robust handling of large datasets and scalable API solutions for researchers
- Built a high-performance system architecture using React, Spring Boot, and MongoDB with comprehensive monitoring, achieving sub-100ms API response times and 40% faster database execution compared to alternatives

TECHNICAL SKILLS

Languages: Python, C++, C, Java, TypeScript/JavaScript, SQL, ARM Assembly, Dart, Zsh
Engineering Concepts: MLOps, Software Testing, Prompt Engineering, LLM Evals, Vector Databases/RAG, AI Agents, CI/CD
Libraries/Frameworks: NextJS, FastAPI, OpenAI API, Langchain, HuggingFace Transformers, PyTorch, NumPy, FastMCP
Software Tools: AWS, Git, Supabase, Redis, Kubernetes, Docker, VSCode, GitLab CI/CD, Jenkins, MongoDB, Next.js, FastAPI