Suhani Shukla

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Education

University of California — Los Angeles (expected June 2027)
B.S. Computer Science, Minor in Entrepreneurship
Relevant Coursework: Data Structures & Algorithms, Computer Organization, Software Construction, Operating Systems, Machine Learning, Deep Learning/Neural Networks, Programming Languages, Networking, Cybersecurity, Automata, Entrepreneurship & Venture Initiation, Business Plan Development, Entrepreneurial Finance & Accounting
Honors and Awards: National Merit Scholar (2023), UCLA QWER Hacks 3rd Place (Traditional Hack) 2024, AIME Qualifier (2021)

Experience

Software Development Engineer Intern, Amazon Web Services
June - Sept. 2025
- Implemented full CI/CD automation of AWS Redshift Console deployment pipelines via Live Pipelines Templates (LPT) in Ruby and AWS CDK in TypeScript. Migrated legacy LPT pipeline to CDK to modernize Infrastructure as Code scheme, by onboarding AWS Apollo containers onto Apollo Application Revisions, ensuring 100% reproducible deployments. Reduced pipeline freshness from 100+ to less than 28 days to meet organization standards.
- Designed an automated rollback system with real-time canary monitoring and composite alarms, ensuring safe, zero-touch deployments to production across 20+ AWS regions. Optimized deployment workflows with staged bake times and automated approvals, reducing manual bottlenecks and increasing deployment reliability and freshness.
- Practiced deployment safety at global scale, automating software for thousands of customers worldwide. Standardized CI/CD practices by integrating automated testing frameworks, performance monitoring, and time-based promotion blockers. Increased deployment frequency by 4x. Authored detailed runbooks and documentation for on-call engineers, improving incident response and long-term maintainability of services.

Software Diagnostics Intern, Nokia
June - Aug. 2024
- Developed improvements to hardware custom command line interface *Diags*. Implemented bidirectional streaming with gRPCs between processes in C++, specifically in all system-wide print messages and all Diags tests of ASIC chip components. Streamlined control flow of critical hardware tests, increasing efficiency for hardware team testing.
- Created custom signal handler integrated with Python front-end—proper termination with control C. Refactored and optimized legacy code to improve readability, performance, and maintainability. Communicated project updates to a software diags team in weekly meetings, collaborated with a team of engineers on code reviews of critical *Diags* issues.

Events Director and AI Consultant, Bruin AI
Sept. 2023 - Present
- Led external strategy for UCLA's first AI club, leading partnerships and high-visibility events with DeepLearning.AI, Cisco, and other industry leaders.
- Built and deployed an internal HR chatbot assistant for Alphacore Wealth Advisory using a RAG pipeline (FastAPI, FAISS, embeddings) hosted on AWS S3 and Lambda to streamline HR knowledge access.
- Collaborated with Anderson MBAs at startup Nortera, using Agile Scrum translating complex HR compliance and EDI data into scalable, data-driven dashboards for risk detection. Oversaw documentation and milestone delivery.

NASA SEES High School Research Internship 🔗
June - Aug. 2022
- Wrote Python image filtering scripts to classify and sort mosquito larvae data. Co-authored research paper on the accuracy of classifying larvae images using Convolutional Neural Networks. Acted as lead speaker during a virtual presentation of research poster at American Geophysical Union Fall 2022 Conference.

Projects

Easy EBT: Grocery Store EBT Item Finder 🔗
- Ideated and created fully functional website to find and purchase EBT-eligible items at grocery stores using Python web scraping and recipe recommendations, with React JS and Django. Third place at UCLA QWER Hacks.

HopOn: Ridesharing for College Students 🔗
- Developed ridesharing platform with ReactJS and MongoDB complete with user authentication/log-in, ride posting, sharing, and chat features, with routing using Google Maps API, and custom front-end styling in CSS and Material UI.

Skills

Technical	C++, Python, JavaScript, TypeScript, Ruby, HTML/CSS, PyTorch, LangChain, HuggingFace, Django, Docker, Tailwind CSS, Material UI, ReactJS, Bash/shell scripting, Git, Figma, AWS Lambda
Other	Quick learner, Excellent Communication, Fluency in Hindi and French, Classical Music