

Rohan Sheth

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EDUCATION

University of California, Davis

Davis, CA

Bachelor of Science in Computer Science and Engineering GPA: 3.82/4.0

August 2022 – June 2026

EXPERIENCE

Software Engineering Intern

June 2025 – August 2025

Medtronic

Northridge, CA

- Architected end-to-end, user-facing AI-based chatbot solution using AWS OpenSearch, S3, Lambda, and DynamoDB
- Implemented agentic retrieval to streamline and refine RAG results, increasing user-evaluated result relevance by 10%
- Developed AI automations for documentation processes, saving 300+ hours by identifying and eliminating bottlenecks
- Deployed internal automation tools on an AWS EC2 instance to deliver to an international team of 20+ staff
- Built LLM-based natural language query feature to accelerate clinical processes and improve workflow efficiency

Software Engineering Intern

June 2024 – September 2024

Raytheon

Aurora, CO

- Developed Java client service to expand satellite ground station functionality by leveraging the INDI protocol
- Added capability for 10+ new devices to ground station, with unit tests to validate device integration and functionality
- Leveraged concurrency to monitor 50+ devices across ground stations to properly sequence workflows
- Designed flexible and extensible object-oriented library with REST API for astronomical device control
- Created OpenCV-based auto-calibration methods for robotic telescope, cutting time needed for device setup by 31%

EXTRACURRICULAR / LEADERSHIP

Contract Software Developer

April 2025 – June 2025

CodeLab: Solidigm Client Team

Davis, CA

- Developed data-cleaning and extraction scripts processing 1 TB of raw content cumulatively for RAG workflows
- Built RAG pipeline using the Dataiku platform for enterprise-scale data processing and ML workflows
- Deployed solution to production environment for enterprise support operations

Contract Software Developer

January 2025 – April 2025

CodeLab: Chevron Client Team

Davis, CA

- Worked on web crawler scalable to process 100+ locations per minute using Puppeteer
- Developed scraping infrastructure capable of analyzing 5,000+ locations, using RabbitMQ for distributed task queueing
- Deployed and managed crawler infrastructure on Azure using Kubernetes for scaling across nationwide and statewide queries

Contract Software Developer

August 2024 – December 2024

CodeLab: Render Client Team

Davis, CA

- Worked with Render to develop a VS Code extension facilitating the creation of Render's hosting blueprint files
- Created TypeScript-based language server to validate fields and syntax as well as offer autocomplete suggestions
- Reduced developer setup time for Render deployments through automated validation and autocomplete features

Research Assistant

June 2023 – February 2024

AAAI Undergraduate Artificial Intelligence Research Challenge

Remote

- Co-first author on research paper accepted at the Association for the Advancement of AI 2024 conference
- Developed AI encoder-decoder model in TensorFlow to augment accessibility for the colorblind
- Built programs to compare the quality of various image-correction algorithms

PROJECTS

Custom Network Stack Implementation

January 2024

- Implemented reliable TCP Reno protocol using UDP sockets from scratch, including congestion control algorithms
- Built sliding window protocol with selective acknowledgments for efficient data transmission and packet loss handling
- Created DNS resolver with recursive resolution
- Wrote script to analyze BGP route traces and identify suboptimal routing paths and convergence delays

TECHNICAL SKILLS

Languages: Java, Python, C++, C, JavaScript, SQL, TypeScript, Kotlin, Swift, Rust, Go

Frameworks: React, Node.js, Flask, LangChain, PyTorch

Databases: MongoDB, PostgreSQL, Elasticsearch, DynamoDB

Developer Tools: Git, Docker, AWS, Linux, Bash, PowerShell, Atlassian, Azure, HuggingFace, Kubernetes, CI/CD, Agile, Jenkins, Gradle

Technologies: RabbitMQ, Redis, Socket Programming, Network Protocols