

Mahyar Vahabi

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Education

University of California - Santa Cruz

Master's, Computer Science

Sep 2024 - Mar 2026

GPA: 4

- Coursework: Software Development, Software Engineering, Data Structures, Object-Oriented Programming, Databases, Computer Networking, Machine Learning, Artificial Intelligence, Cryptography

University of California - Santa Cruz

Bachelor's, Computer Science

Sep 2020 - Jun 2024

GPA: 3.72

Skills

Programming Languages: Python, C/C++, SQL, HTML/CSS, JavaScript, Java

Database & Dev. Tools: Wireshark, PostgreSQL, MySQL, REST APIs, Kubernetes, Docker, AWS, Bash, Linux, Git

Languages: Persian, English

Professional Experience

SpaceX

Software Engineer Intern

Sunnyvale, CA, USA

Jun 2025 - Sep 2025

- Built a Python/Flask pipeline to fetch multilingual survey responses hourly from Typeform into the internal SQL Server, eliminating the manual ETL process and delivering fresh insights
- Designed a normalized schema with SQLAlchemy to support 18 form variants without code changes
- Automated question mapping by index/type, flagging lowconfidence matches for review, and removing hardcoded logic
- Developed an LLMdriven ticket classifier that parses customer text and autoassigns issue categories, cutting manual triage by 90%
- Migrated intensive classification workloads from the UI into asynchronous Celery tasks, ensuring subsecond page loads

Baskin Engineering @ UCSC

Computer Science Teaching Assistant

Santa Cruz, CA, USA

Jan 2023 - Jun 2025

- Teaching Data Structures & Algorithms to 1,000+ students through hands-on complex C and C++ projects
- Managing a team of 15+ teaching staff by delegating tasks, mentoring, and optimizing grading workflows
- Conducting 80 hours of lab instructions to strengthen students' problem-solving, programming, and debugging skills using GDB debugger, through effective communication skills
- Deployed 10 automated testing Bash scripts in Linux operating systems to assess students' programming projects, covering functional, integrational, and memory leaks with Valgrind

Scale AI

Reinforcement Learning Engineer

San Francisco, CA, USA

Jun 2023 - Sep 2023

- Contributed to Scale AI's Remotasks team to enhance code generation through Reinforcement Learning from Human Feedback
- Enhanced Bard's chatbot code generation accuracy by refining prompts iteratively, applying SDLC, Agile, and CI/CD practices
- Engineered 100+ code completions across Python, JavaScript, SQL, and C++ to strengthen Bard's multi-language generative capabilities
- Evaluated and optimized prompt-response pairs to support continuous fine-tuning of the chatbot under the RLHF framework
- Performed in-depth analysis of 50+ code-related prompts to evaluate quality, coherence, and compliance with requirements

Projects

Networking Firewall & Routing Controller – Python | POX | Mininet

Oct 2023 - Dec 2023

- Developed dynamic Python routing for ICMP, TCP, and UDP packets across VLANs using POX and OpenFlow
- Deployed a multi-switch, multi-subnet enterprise topology in Mininet with a remote POX controller
- Enforced inter-departmental firewall rules and flow-based routing by IP and transport protocol
- Programmatically controlled switch flow tables to manage packet forwarding rules and drop unauthorized traffic
- [Link to project](#)

Multi-Threaded Server – C | Socket programming | Data Structures | Semaphores | AWS | Nginx

Apr 2023 - Jun 2023

- Programmed a multi-threaded C and Python-based server using socket programming for efficient end-to-end network management
- Achieved sub-20ms response times by utilizing semaphores for thread synchronization, handling 1000+ concurrent threads
- Constructed a queue-based architecture for cross-functional and sequential request processing and ensured atomicity
- Optimized system performance with AWS Elastic Load Balancing and Nginx Caching to reduce server load for recurring content
- [Link to project](#)

Bitcoin Price Prediction – Python | TensorFlow | PyTorch | Keras | Hypertuning

Sep 2022 - Dec 2022

- Implemented a Bitcoin price prediction model by employing RNN architectures, yielding a 90% validation accuracy
- Executed LSTM and GRU layers to enhance forecasting accuracy and model performance over a longer period
- Utilized TensorFlow, PyTorch, and Keras for model training, fine-tuning hyperparameters, and evaluating prediction results
- [Link to project](#)