Mahyar Vahabi

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Education

University of California - Santa Cruz **Sep 2024 - Mar 2026**
Master's, Computer Science *GPA: 4*
- Coursework: Software Engineering, Data Structures, Object-Oriented Programming, Object-Relational Mapping, Database Management, Machine Learning, Artificial Intelligence, Network Security, Cryptography

University of California - Santa Cruz **Sep 2020 - Jun 2024**
Bachelor's, Computer Science *GPA: 3.72*

Skills

Programming Languages: Python, C/C++, SQL, JavaScript
Database & Dev. Tools: Wireshark, MSSQL, REST APIs, AWS, Linux, Git
Languages: Persian, English

Professional Experience

SpaceX **Sunnyvale, CA, USA**
Software Engineer Intern *Jun 2025 - Sep 2025*
- Designed an end-to-end Python data pipeline using SQLAlchemy ORM for near real-time ingestion of multilingual Typeform survey submissions into the database
- Developed a CLI tool to connect the user to Typeform workspaces, fetch desired surveys via API, and create reusable ingestion configs
- Dynamically generated declarative SQLAlchemy table models (submissions, responses, and mappings) tailored to each survey, replacing manual schema setup
- Implemented a question-mapping algorithm to unify translated survey copies under a single primary survey, ensuring consistent analytics across all translated surveys
- Engineered a validation algorithm that cross-checks mapping tables against live Typeform questions, flagging surveys with added or removed items as outdated to prevent faulty ingestions
- Utilized Celery Beat to automate table creation and submission ingestion scheduling for every survey, asynchronously running the ETL process on all forms
- Built unit test coverage for ingestion flows, ORM models, and validation logic to ensure reliability and fault tolerance

Baskin Engineering @ UCSC **Santa Cruz, CA, USA**
Teaching Assistant *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 **San Francisco, CA, USA**
Reinforcement Learning Engineer *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

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*