

Hilal Morrar

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EDUCATION

University of Texas at Austin

August 2023 – December 2024

Masters of Science, Computer Science

Austin, Texas

- Coursework: Computer Security, Database Systems, Distributed Computing, Operating Systems, Prediction in Computer Architecture

University of California, Santa Cruz

September 2018 – June 2022

Bachelors of Science, Computer Science

Santa Cruz, CA

- Cumulative GPA: 3.43, Dean's Honor List in Spring 2019, Summer 2020.
- Coursework: Artificial Intelligence, Machine Learning, Operating Systems, Software Engineering, Statistics

EXPERIENCE

Software Engineer Intern

May 2024 – Present

Cisco Systems - Duo Security

Remote

- Improving an internal performance testing tool by adding a feature to dynamically create simulated customers and generate realistic HTTP requests.
- Resolving several Jira tickets to address issues in Kubernetes deployments, Docker containers, and documentation.
- Attending regular meetings and communicating with other teams to provide and receive support as needed.

Computer Science Undergraduate Teaching Assistant

September 2019 – June 2022

Baskin School of Engineering - Computer Science and Engineering Department

Santa Cruz, CA

- Led regular tutoring sessions for Applied Discrete Math, Computer Systems and Assembly Language, and Introduction to Python courses.
- Students consistently rated my sessions at least 8/10 and noticed an average grade increase of 9%.
- Designed and graded weekly quizzes and Python assignments for Artificial Intelligence, Machine Learning courses.

Frontend Software Engineer

July 2020 – September 2020

Baskin School of Engineering - Computer Science and Engineering Department

Santa Cruz, CA

- Worked in an Agile team environment to build a device to monitor energy data in a residential network.
- Developed the frontend of a UCSC research lab website using React and JavaScript for UI/UX design.
- Connected frontend and backend to send, receive, and process user input for device registration via JSON.

RESEARCH

Applied Machine Learning Lab Research Assistant

September 2020 – August 2021

Baskin School of Engineering - Computer Science and Engineering Department

Santa Cruz, CA

- Assisted on two projects in cognitive electrophysiology and data science under Professor Narges Norouzi.
- Designed and implemented various convolutional neural network architectures to make predictions based on time-series data with PyTorch.
- Parallelized and distributed model training across several cloud GPU clusters with Kubernetes to reduce training time by 50%.

PROJECTS

Distributed Key-Value Store | Go, Git, Docker

February 2023 – Present

- Developing the back-end API of a distributed, fault tolerant, consistent, and sharded key-value store.
- Utilizing Goroutines for concurrency when handling client and internal HTTP requests for system communication.

TagMe | Electron, Go, Git, Node.js, HTML/CSS

January 2022 – March 2022

- Worked in an Agile team to make a cross platform, full stack desktop application to search files by custom tags.
- Responsible for UI and frontend functionality, designed and implemented backend unit tests in Node.js.

TECHNICAL SKILLS

Languages: Go, Python, C, C++, Java, Assembly, JavaScript, HTML/CSS, Rust

Frameworks/Libraries: Agile, Gin, PyTorch, TensorFlow, NumPy, pandas, Keras, scikit-learn, React

Developer Tools: Git, Docker, Command Line, Google Colabs, Jupyter Notebooks, Linux/Unix, Kubernetes