

# Hilal Morrar

510-520-9271 | [hilalmorrrar@gmail.com](mailto:hilalmorrrar@gmail.com) | U.S. Citizen  
[linkedin.com/in/hilal-morrrar/](https://www.linkedin.com/in/hilal-morrrar/) | [github.com/hamorrrar](https://github.com/hamorrrar) | [hilalmorrrar.com/](https://hilalmorrrar.com/)

## EXPERIENCE

### Software Engineer

January 2025 – Present

*LivingIn*

*Remote*

- Designing and Implementing various parts of the system from the ground up, including but not limited to UI, backend routes, database integration.
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### Performance Engineer Intern

May 2024 – August 2024

*Cisco Systems - Duo Security*

*San Francisco, CA*

- Improved an internal performance testing tool by adding a feature using Python, AWS EC2, and MySQL to dynamically create simulated customers and generate realistic HTTP requests.
- Executed load testing suites with GitHub CI/CD pipelines to monitor and validate software release performance metrics using Datadog, Grafana, and Kibana dashboards for observability and incident response.
- Diagnosed and fixed deployment issues in Kubernetes clusters with Python and Docker YAML configurations, contributing to improved system reliability and reducing the risk of service degradation or on-call incidents.

### Software Engineer Intern

May 2023 – August 2023

*Stealth Startup*

*Remote*

- Designed and implemented a REST API for a distributed, fault tolerant, consistent, and sharded key-value store using Go and Docker.
- Utilized Goroutines for concurrency when handling client and internal HTTP requests for system communication.
- Developed the resharding algorithm and internal API routes to support dynamic replica coordination and data rebalancing, and wrote Bash scripts to automate setup and teardown processes.

### Machine Learning Engineer

September 2020 – August 2021

*Applied Machine Learning Lab*

*Santa Cruz, CA*

- Led the design and training efforts of various neural network model architectures to make predictions based on time-series data with PyTorch.
- Evaluated and tuned machine learning models using techniques like hyperparameter optimization, regularization, and pruning to achieve 95% accuracy.
- Improved data processing pipeline to distribute model training in a Kubernetes GPU cloud cluster to reduce training time by 50%.

### Frontend Software Engineer

July 2020 – September 2020

*Resilient Renewable Efficient Energy Systems*

*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 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.

## EDUCATION

### University of Texas at Austin

August 2023 – December 2024

*Masters of Science, Computer Science*

*Austin, Texas*

- Coursework: Artificial Intelligence, Database Systems, Distributed Systems, Prediction in Computer Architecture

### University of California, Santa Cruz

September 2018 – June 2022

*Bachelors of Science, Computer Science*

*Santa Cruz, CA*

## TECHNICAL SKILLS

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

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

**Developer Tools:** Atlassian, Docker, Git, Jira, Jupyter Notebooks, Kubernetes, Linux/Unix, MySQL, PostgreSQL, Slack, Terraform