

Robert Armen Missirian

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in Bobby Missirian

thebigbadbobby



EDUCATION

M.S. Computer Science

University of California, Irvine 2021-2023 (Expected) Irvine, CA

SELECTED CLASSES

Brain-Inspired Computing

A programming-focused class integrating brain-inspired algorithms into machine learning code with a focus on academic research.

Research Tutorial

A continuation of Brain-Inspired Computing where I studied hyperdimensional computing applied to the detection of malicious code.

B.S. Computer Science

University of California, Santa Cruz 2017 – 2021 Santa Cruz, CA

SELECTED CLASSES

Computational Biology

A genomics-focused class integrating biology and computer science with a focus on academic research.

Research Tutorial

A continuation of Computational Biology during which I began a research project to detect mutational spectrums in HIV.

RESEARCH EXPERIENCE

Graduate Researcher

BiasLab, UC Irvine 06/2022-Present Irvine, CA

- Programmed and gathered data on multiple projects to further our understanding of brain-inspired computing, in particular hyperdimensional computing (HDC).

Undergraduate Researcher

Camps Lab, UC Santa Cruz 2020-2021 Santa Cruz, CA

- Researched patterns in HIV Genomes using programming and data analysis for the Camps Lab, Microbial Biology Department, University of California, Santa Cruz.

EXTRACURRICULAR EXPERIENCE

Co-Founded Startup

Kahzum 2017-2021 Santa Cruz, CA

Car Advertisements

- Programmed and alpha tested a novel system for measuring the effectiveness of car advertisements.

Store Metrics Pilot

- Engineered, developed, and implemented a pilot program for data analysis on in-store traffic derived from WiFi signals for 5 local small businesses.

Delivery System

- Created a website, a py4web web application, and a business model for local delivery of retail items during the COVID-19 pandemic.

Co-Founded Student Organization

Entrepreneurship Club 2017-2018 Santa Cruz, CA

- Co-founded a student organization dedicated to supporting student entrepreneurs. Later on, I was involved with organizing events promoting entrepreneurship on campus.

UCI New Venture Competition

Beall Applied Innovation 2022 Irvine, CA

- Semi-Finalist in the New Venture Competition, a program to develop student innovation and entrepreneurship

Wayfinder Program

Beall Applied Innovation 2022-Present Irvine, CA

- Currently working with a team in a UCI-sponsored program to build an innovative solution for academic degree verification.

Project Sponsor

Informatics 117 2022-Present Irvine, CA

- Currently supervising a group of undergraduate students building the academic degree verification app as part of a capstone course.

SKILLS

COMPETENCIES

Python

5 years

Java

5 years

UNIX/Command Line

6 years

HTML

3 years

Databases

3 years

JavaScript

2 years

GENOMICS

- Knowledge of academic literature in the field of genomics, especially pertaining to mutations.
- Familiarity with research principles from work and collaboration with colleagues in the Camps Lab, including presentations and seminar-style discussions.

BRAIN-INSPIRED COMPUTING

- Knowledge of hyperdimensional computing algorithms such as NeuralHD and OnlineHD
- Experience collaborating on experimental machine learning tasks in groups.