

# 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.