

Koorous Vargha

koorousvargha@gmail.com

[linkedin.com/in/kvargha](https://www.linkedin.com/in/kvargha)

github.com/kvargha

kvargha.com

EDUCATION

University of California, Santa Cruz

Expected Graduation: March 2021

Bachelor of Science in Computer Science

GPA: 3.47

Relevant Coursework: Distributed Systems, Operating Systems, Web Applications, Database Systems, Machine Learning, Data Structures, Algorithms, Computer Architecture, Functional Programming, Calculus, Linear Algebra, Computational Models, Discrete Math, Probability Theory

SKILLS

Languages: Python, C, JavaScript, Java, Golang, SQL, HTML, CSS

Cloud Services: Amazon Web Services (AWS), Google Cloud Platform, DigitalOcean

Libraries and Tools: Docker, Django, Flask, Polymer, Tensorflow, Numpy, Pandas, Matplotlib, Git

EXPERIENCE

Programmer Intern - *LEEPS Lab, Santa Cruz*

May 2020 - Present

- Building multiplayer full-stack high-frequency trading economic experiments using Django and Polymer
- Maintaining 3 Linux DigitalOcean servers and consolidate multiple processes with bash scripts
- Processing and visualizing stock market simulation data through Matplotlib and Numpy

Reader - *Tech4Good Lab, Santa Cruz*

April 2020 - June 2020

- Performed analytical research into the field of the safety of autonomous vehicles

Technology Chair - *Circle K International, Santa Cruz*

May 2018 - May 2019

- Developed a website optimized through SEO that served 50 daily active users
- Raised newsletter subscriptions from 400 to over 550 through advertising at club recruitment events

PROJECTS

AmberDash: 1st Place Google Cloud Category - *CruzHacks 2020*

Jan. 2020

- An Android app that matched nearby cars with Google Vision with active amber alerts on Firebase
- Created dashboard with Flask to pull data from Firebase to display recent coordinates onto Google Maps

Distributed Database - *Class Project*

March 2020 - June 2020

- Built a distributed key-value datastore using Golang hosted within a network of Docker containers
- Improved fault-tolerance through data sharding and node replication

Image Recognition - *Class Project*

May 2020

- Built convolutional neural networks from scratch using Tensorflow to classify pre-processed images
- Utilized pre-trained neural network models and dropout techniques to increase model accuracy

Django Blog - *Personal Project*

July 2019 - Aug. 2019

- Built a full-stack blog using Django that handled user authentication and new blog posts
- Deployed to AWS using Elastic Beanstalk and S3 that can scale to over 100,000 users

EXTRACURRICULARS

General Member - *Google Developer Student Club*

Oct. 2019 - Present

- Participated in study jams to learn the fundamentals of Google Cloud Platform

General Member - *Circle K International*

Sept. 2017 - Present

- Volunteered at community service events, providing an average of 50 hours per year
- Awarded Bronze Level for the Membership Recognition Program