Hamza Kamran Khawaja

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Work Experience

Software Engineer Intern/ Researcher
UC Berkeley: Greater Good For Education - Berkeley, CA
January 2021 to Present

○ Monitored users' geographic distribution (across 60 countries), nationally across the US, and locally, e.g county-wise, and evaluated user engagement with content related to mental health and wellness for students and teachers from Greater Good In Education.

○ Utilized Numpy, Pandas, Geopandas, Folium, GEOIP, and Uszipcode for Geospatial Mapping using ipad- dresses and zipcodes in Python.

○ Cleaned backend data from SQL for use in mapping and plotted data using Numpy and Matplotlib in Jupyter Notebook. Successfully obtained unrecovered user data for more than 2000 users.

○ Obtained funding of more than $8500 from UC Berkeley to develop project in Summer 2021

Coding Instructor
The Coding School Remote
February 2016 to Present

○ Instruct students in multiple languages including Python, Java, Javascript, CSS, HTML, Scratch and frame- works such as Flask.

○ Project walkthroughs and homeworks, conceptual teaching, and exam preparation, particularly USA Com- puting Olympiad (USACO).

○ Some projects worked on:
- Discord Bot
- Chat room and messaging application
- Batteship Game
- Academic Website able to upload documents, search capabilities and a custom admin panel
- Machine Learning Models (classification and regression models) e.g housing price predictor

Software Engineering Intern
Relaymile Remote
December 2020 to March 2021

○ Worked in a team of 7 to develop backend features and systems for startup RelayMile.

○ Created a trailer tracking system using Python, MySQL, Flask, Jinja, and Google API. Displays available trailers of user-selected categories within a given radius from the user.

○ Implemented a Web Socket based, real-time messaging system with Flask and Javascript, with real-time user notifications.

Berkeley's Pre-Engineering Program Participant (T-PREP)
University of California - Berkeley, CA
May 2019 to August 2019

- ␣ Selected for and participated in Berkeley's prestigious T-PREP program with less than 10% acceptance rate for incoming transfers
- ␣ served as a grooming camp, teaching students topics ranging from AutoDesk360, basic Arduino Programming, Google SPRINT design methodologies, and Python.

Vice President
Associated Students of Napa Valley College - Napa, CA
August 2017 to August 2019

Presided over Grievance Committee, Inclusivity Committee and Constitution and Bylaws Committee. Obtained sponsorships from companies to fund student activities; coordinated with
companies such as Dunkin Donuts to facilitate student activities, and California Representatives such as Dianne Feinstein and Mike Thompson to represent student concerns.

IT Associate
Napa Valley College Napa - CA
May 2018 to June 2019

○␣ Updating computer labs with recent Windows and Mac disk images (ISO) images
○␣ Thawing and Freezing computers with Deep Freeze, and updating and installing software based on licensing and class requirements
○␣ Inventory management of Napa Valley College's computer and utility storage
○␣ Assembling separated computer components into working computers
○␣ Connecting peripherals in classrooms like projectors, speakers, printers, and document cameras and ensuring their proper functioning
○␣ Debugging common hardware and software problems and troubleshooting

Education

BSc. in Electrical Engineering and Computer Science
University of California - Berkeley, CA
December 2021

A.S in Natural Science
Napa Valley College - Napa, CA
June 2019

A.S in Natural Science and Mathematics
Napa Valley College - Napa, CA
June 2019

Skills

- Python
- Java
- SQL
- C++
- Network security

- Go
- Microsoft Office
- HTML5
- CSS
- User Interface (UI)
- JavaScript
- Communication skills
- Microsoft Excel
- Time management
- Git
- Linux
- Computer Science
- GitHub
- Test Cases
- C/C++

Languages

- Urdu - Expert
- English - Expert
- Punjabi - Fluent
- Spanish - Intermediate

Links

https://github.com/Hamza-Kamran

Awards

For awards, please view resume/CV

Certifications and Licenses

Pearson Certificate in Information Technology

NICON Certificate in Information Technology

Publications

Improving Battery Standards for the next electric car
November 2018

A sustainable Transportation Model using alternatives and Strategies

August 2019