

Yousef Helal

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(617) 820-2585

Education

University of California, Berkeley

Berkeley, CA

Junior, B.S. Electrical Engineering and Computer Science

Graduating Fall (December) 2023

- Overall GPA: 4.00/4.00
- HKN (EECS Honors Society), Deans List

Selected Coursework: Robotics, Embedded and Cyber Physical Systems, Database Systems, Signals and Systems, Computer Security, Data Structures and Algorithms, Circuit Analysis, Computer Architecture and Assembly Programming,

Experience

Bay Area Community Resources

Remote

Software Engineer Intern

Oct. 2020 – Jul. 2021

- Developed a web-based educational game as part of Bay Area Community Resources' API-CHAT project, that seeks to educate users about the consequences of tobacco use.
- Collaborated with a team on research of game content, and proposed and led the use of Gatsby and React for development.

Cloudera Inc.

Santa Clara, CA

Software Engineer Intern

May. 2022 – Aug. 2022

- Facilitated and automated the installation of Istio into the Release Engineering teams' Kubernetes clusters, which contained the applications that composed Cloudera's entire release pipeline.
- Constructed dashboards that visualized the network activity to and from the applications in these clusters, using the metrics collected from the Istio installation.

UC Berkeley SkyLab

Berkeley, CA

Research Assistant

Jan. 2022 - Present

- Working on the Apperception project under Professor Alvin Cheung.
- Developing a video DB management system, as well a corresponding query API used to query videos by the geospatial attributes of objects in these videos.

UC Berkeley EECS

Berkeley, CA

Teaching Assistant

Aug. 2022 – Present

- Mentored students in EE 120 (Signals and Systems), running both discussion sections and office hours.
- Aided students with assignments and questions, helped grade assignments, and assisted in development of course material.

Selected Projects

All Chess

Nov. 2020

- Designed and implemented a Python-based discord bot that sets up chess games of different types, provides user rankings, and more.
- Won 2nd place @ IEEE Berkeley OpenHacks, and is currently supporting over 110 servers (with 20,000+ members in between all of them).

Techinal Skills

- **Programming Languages:** C++, Python, Java, JavaScript, HTML, CSS, SQL, Flutter/Dart, Assembly (MASM), Go
- **Tools:** Kubernetes, React, Gatsby, Git, NumPy, OpenCV, Firebase (RT-Database, Auth, Functions), Grafana/Prometheus, Istio, ROS