

Yousef Helal

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Education

University of California, Berkeley

B.S. Electrical Engineering and Computer Science

Berkeley, CA

Aug. 2021 – 2023

- Overall GPA: 4.00

De Anza/Foothill College

Transfer Student

Cupertino, CA

Aug. 2019 – Jun. 2021

- Overall GPA: 3.95

Relevant Coursework: Data Structures and Algorithms, Computer Programming, Circuit Analysis, Assembly Programming, Linear Algebra, Differential Equations, Physics, Calculus, Discrete Math

Professional Experience

Bay Area Community Resources

Software Engineer Intern

Remote

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.

De Anza CS Department

Teaching Assistant

Cupertino, CA

Apr. 2020 – Jun. 2021

- Mentored students in classes with topics spanning Data Structures, C++, and Java.
- Aided students with assignments and questions, and assisted in development of course material.

Projects

Git-inspired Virtual Control System

Jul. 2021

- Created a Java-based virtual control system, that incorporated a number of Git commands.
- Integrated a tree structure for project history, implemented branch merging, and made use of object serialization for saving repository state.

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 10,000 users.

Additional Experience

DA Hack Organizer

Oct. 2020

- Developed the site used for the hackathon, which may be found here: <https://dahack.dev/>. Created using Gatsby and React, and is being hosted on Netlify.
- Assisted attendees with questions, and moderated hackathon platforms.

Foothill College Clean Energy System

Oct. 2020 – May 2021

- Presented a clean energy system for Foothill College, as part of the Research Leadership Symposium.
- Delivered an emissions reduction of 80% at a cost cheaper than the current system, with a capital payback period of 23.0 years.

Skills

- **Programming Languages:** C/C++, Python, Java, JavaScript/TypeScript, HTML, CSS, SQL, Dart, Assembly (MASM)
- **Tools:** Flutter, React, Gatsby, Git, NumPy, Pandas, OpenCV, Keras, Node.js, Firebase (RT-Database, Auth, Functions)