

Yousef Helal

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Education

University of California, Berkeley

Junior, 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, Database Systems, Computer Programming, Circuit Analysis, Assembly Programming, Discrete Math and Probability, Linear Algebra, Differential Equations,

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 80 servers.

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++, Python, Java, JavaScript, HTML, CSS, SQL, Dart, Assembly (MASM)
- **Tools:** Flutter, React, Gatsby, Git, NumPy, OpenCV, Firebase (RT-Database, Auth, Functions)