

# Jonah Bedouch

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## Education

### University of California, Berkeley

Bachelors of Science, Electrical Engineering and Computer Science — GPA: 3.90/4.0

Berkeley, CA

August 2022 – May 2026

- **Completed Courses:** Data Structures & Algorithms, Machine Structures, Intro Linear Algebra + Circuits 1 & 2
- **Current Courses:** Discrete Math, Computer Security, Database Systems

## Experience

### Berkeley AI Research Lab — Nerfstudio

Software Developer

Berkeley, CA

May 2023 – Present

- Implement viewer features such as configurable titlebars, mobile support, and markdown integration into Viser, an interactive 3D visualization toolbox for Python which acts as the frontend for Nerfstudio.
- Replace CRA with Vite, achieving 50x faster dependency bundling and 25x faster Typescript transpiling
- Collaborate with Viser team to design Python interfaces for interacting with 4 new features

### Leap XR, LLC

Cofounder and Full Stack Developer

Fresno, CA

December 2019 – Present

- Develop a teacher dashboard used to view student data and administer lessons using React and Tailwind CSS
- Design a websocket-based server using Bun to bridge VR headsets, a Web Dashboard, and a MongoDB database
- Manage contracted UX design and level design teams and advise on core product design and features

### Robert Bosch, LLC

Research Intern, GS/PEO — Nevonex

Sunnyvale, CA

October 2022 – March 2023

- Redesign User Interface for Demo Feature to maximize usability by improving layout and control structure
- Modernize existing frontend using VueJS and TailwindCSS to improve maintainability and extensibility
- Work with supervisor to update and integrate existing JQuery codebase into VueJS and to design new features dependent on preserved JQuery implementation without code duplication

## Skills

- **Languages:** TypeScript / JavaScript, Python, HTML, CSS, Java, C
- **Technology:** React, Svelte, Vue 3, Node.js, Firebase, Git, Linux, MongoDB

## Projects

### Strudel Candidate Semester Tracker

October 2023

- Progress tracker for new HKN candidates to track completion requirements for the Strudel committee project
- Built with SvelteKit, Firebase (Auth and Firestore), and TailwindCSS to allow committee members to create and update candidate accounts, events, and progress in one flow and candidates to view their progress in another.

### Bedouch.net

December 2022

- A custom-made constantly evolving project portfolio and blog
- Built with SvelteKit and MDX, with custom theming and the ability to render markdown posts.

### Build Your Own World (CS61B)

December 2022

- A custom, deterministic world generator and viewer built alongside a partner in Java as a final project for CS61B.
- Includes seeded world generator, rudimentary lighting engine, character customization, save states, movement, keyboard interactions, custom mouse-enabled GUI, and a basic collection-based “win condition.”

## Honors

- **Eta Kappa Nu Inductee** — Induction into Berkeley IEEE HKN Honor Society Spring 2023
- **College of Engineering Dean's List** — GPA in top 10% of all CoE Students Fall 2022 – Spring 2023
- **CAA Leadership Award Recipient** — \$2,000 scholarship for demonstration of leadership qualities Fall 2022

## Leadership

### Eta Kappa Nu — Student Relations Committee Officer

Fall 2023 – Spring 2024

- Engage with the EECS community at Berkeley on behalf of the EECS Honor Society by overseeing post-exam fruit snack distribution, managing social media, planning interclub collaborations, and tutoring for 2 hours per week.