

University of California, Berkeley

Berkeley, CA

Electrical Engineering and Computer Science, B.S.

Aug 2022 - May 2026

QUALIFICATIONS

[GPA: 3.6]

Skills:

Machine Learning, Robotics, Computer Architecture, Web Development, Object-Oriented Design

Languages:

Java, Python, C, C++, JavaScript, MATLAB, R, SQL, RISC-V, VBA, HTML/CSS

Tools:

Git, Jupyter, Valgrind, PyTorch, Node.js, Arduino, NumPy, React, Unix/Linux

PROFESSIONAL EXPERIENCE

RecVue

Palo Alto, CA

Software Engineering Intern

June 2024 - Aug 2024

- Implemented Large Language Models (LLMs): Spearheaded the integration of advanced LLMs to power CoPilot, an AI-driven assistant designed to enhance customer interaction.
- System Integration and Optimization: Integrated LLMs into existing infrastructure, fine-tuned models on customer data, and continuously refined the model to optimize performance and accuracy of responses.

PROJECTS

CS61Classify

March 2024

- Developed RISC-V assembly code to implement handwritten digit classification using ReLU activation in a machine learning model.
- Designed and implemented a simple Artificial Neural Network (ANN) as part of the classification process, enhancing the accuracy and effectiveness of the digit recognition system.

Build Your Own World

November 2023

- Designed and developed a 2D interactive, tile-based exploration game engine using Java StdDraw and TileSet libraries.
- Implemented procedural generation techniques with seed-based algorithms to create diverse and randomly generated worlds with strategically placed keys and locks
- Created a robust Save/Load feature for an immersive user experience

S1XT33N

October 2023

- Engineered a voice-controlled car leveraging Arduino (C++) technology, complemented by Signal Processing techniques
- Implemented Singular Value Decomposition (SVD) and Principal Component Analysis (PCA) algorithms to enhance the car's functionality and responsiveness to voice commands
- Utilized SVD for dimensionality reduction and noise reduction in collected data, while PCA facilitated feature extraction and efficient representation of the input space.
- Integrated these algorithms into the circuit design to enable data processing, resulting in precise control mechanisms and enhanced performance of the voice-controlled car.

Excel VBA automation

July 2023

- Engineered and deployed a macro system engineered to efficiently manage extensive volumes of customer data sourced from the insurance gateway
- Implemented real-time conversion of this data into a standardized format compatible with the Customer Relationship Management system, enabling widespread dissemination to all employees.
- Streamlined data processing, resulting in a 60% reduction in manual effort and error rates while handling large datasets.

EXTRACURRICULARS

FullStack Development | Web Development at Berkeley

April 2024

- Explored principles of front-end and back-end development, gaining proficiency in full-stack web development and design
- Developed expertise in JavaScript, HTML, CSS, and Node.js, mastering the creation of dynamic and interactive web applications
- Collaborated effectively in cross-functional teams, contributing to the development of large-scale software projects from inception to implementation