

Eric Huang

Double major in Electrical Engineering / Computer Science (B.Sc.) and Data Science (B.A.)

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Education

Senior Undergraduate | University of California Berkeley, Berkeley, CA

Double major in Electrical Engineering / Computer Science (B.Sc.) and Data Science (B.A.) | GPA: 3.6/4.0

Expected Graduation Date: May 2025

- Completed coursework in Data Structures, Computer Organization and Design, Cryptography, Operating Systems and System Programming, Computer Security, Artificial Intelligence, Databases, Efficient Algorithms and Intractable Problems, Optimization Models in Engineering
- Currently completing coursework in Software Engineering and Machine Learning

Work Experience

Software Engineering Intern | Invown | May 2024 – August 2024

- Assisted Invown's goal in helping start-ups sell securities for capital funding by implementing and transitioning Invown's API from North Capital's TransactAPI to Brassica's API, enhancing integration with new infrastructure for improved efficiency, compliance, and options.
- Collaborated with cross-functional teams to test and debug the new API integrations, reducing processing times and ensuring seamless and secure transactions for start-ups raising funds.
- Conducted comprehensive testing of the company's website and features, facilitating a seamless transition from AWS to GCP while maintaining overall system performance and reliability.
- Created complete detailed guide and reference documentation about the company's API features: <https://invown.apidocumentation.com/> and <https://www.invown.com/>

Computer Security Teaching Assistant | University of California, Berkeley | May 2023 – August 2023

- Taught and administered a course of 170 students within a team of 22 teaching assistants.
- Worked in a team environment to write / pre-test exams and answer questions on class website.
- Hosted office hours to help students better understand course material and debug assignments.

Research Intern | Michigan State University | May 2022 – August 2022

- Implemented computer vision code to detect human faces and bodies in controlled and field environments using python libraries such as pytorch, opencv, and cv2.
- Extracted the human bounding box data from raw and field images and videos to analyze the location, movement, and size in order to better develop computer vision algorithms.

Projects

PintOS Operating System | CS 162: Operating Systems and System Programming

- Implemented critical OS components including file systems, thread scheduling, user programs, virtual memory, kernel development, low-level programming, synchronization, and debugging.

Database | CS 186: Introduction to Database Systems

- Developed database with support for B+ tree indices, efficient join algorithms, query optimization, multigranularity locking to allow concurrent execution of transactions, and database recovery.

Encrypted File Sharing System | CS 161: Computer Security

- Designed and implemented file sharing system secured with cryptography and security principles.

Skills and Expertise

- SQL, Regex, Java, C, C++, Python, Ruby, Html, JavaScript, Web Applications, Golang, Git, Github, IntelliJ, Visual Studio, Docker, Data Structures, Algorithmic Techniques, Optimization, Testing, Debugging, Object-Oriented Design, System Design, API Development, Agile Software Practices
- Time-management, Collaboration, Communication, Adaptation, Active learning, Problem Solving