

Jay Yeung

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EDUCATION

University of California, Berkeley

Expected May 2027

Bachelor's Degree Data Science

Berkeley, CA

- **Relevant Coursework:** Structure and Interpretation of Computer Programs, Multivariable Calculus

EXPERIENCE

GitHub, Inc.

Berkeley, CA

Software Developer (Contract) – SAAS @ berkeley

Sep 2023 – Present

- Responsible for automating the process of tagging repositories with relevant topics using NLP and LLMs

Artificial Intelligence for Community Health Workers

Berkeley, CA

Berkeley Undergraduate Research Apprentice Program (URAP) Programmer

Aug 2023 – Present

- Proposed and developed a chatbot proof of concept that was accepted by project team for further development
- Responsible for creating a searchable database of clinical guidelines

Center for Genetically Encoded Materials (C-GEM)

Berkeley, CA

Berkeley Data Science Discovery Researcher

Aug 2023 – Present

- Extracted citations from research papers automatically
- Responsible for scraping research paper for amino acid sequences and attributes using LLMs

Broker Brain, LLC

Park City, UT

Co-Founding AI Lead Developer

March 2023 – Present

- Enhanced house search experience through AI-powered algorithms on askmarcie.com
- Generated engaging blogs and property descriptions using ChatGPT 4
- Parsed and processed MLS (multiple listing service) data, optimizing storage and retrieval with MongoDB
- Automated processing of steel listings using OCR and GPT-based techniques

NXP Semiconductors N.V.

San Jose, CA

Summer Intern

Summer of 2021 and 2022

- Leveraged AI software algorithms to drastically reduce the ATE debug time required in creating test-patterns
- Created a Perl program to convert firmware code from binary to ATE (automatic test equipment) code format
- Developed a C++ based VLSI Place & Route tool by using the Kernighan-Lin algorithm to optimize the data structure and speed up the run time from 50 to 4500 gates in seven hours

University of Maryland MIND Lab

College Park, MD

Computer Science Research Intern

June 2022 – November 2022

- Analyzed respiration, movement and heart rate data collected from Spire tag, a wearable sensor which captures 25 samples per second
- Implemented a Python program to automatically clean up the dataset using quadratic regression

PROJECTS

American Sign Language to Text

- Implemented pose estimation techniques and utilized TensorFlow to transcribe ASL hand symbols
- Managed and processed a large dataset of 15 GB consisting of hand gesture data
- Deployed the backend using Nginx on AWS and the frontend on Vercel, ensuring a seamless real-time user experience on the [website](#)

Snap Detection

- Built a neural network that detects finger snaps that can be used to activate household appliances
- Hosted the project on [GitHub](#) and created a [YouTube demo](#)

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, HTML, CSS, Java, C++, Perl, TypeScript

Frameworks: TensorFlow, React, Next.js, OpenGL, Flask, Django, Bootstrap, Express.js

Libraries: Git, NumPy, Pandas, SciPy, Matplotlib, PyTorch, Sk-Learn, Scrapy, LangChain, OpenCV, BeautifulSoup, MediaPipe, PyAutoGUI, pickle, tabula, NLTK, RegEx, pyimgui, seaborn