Cyrus Wise

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Education

University of California, Berkeley — Berkeley, CA
Electrical Engineering & Computer Science — *Aug. 2023 – May 2027*

Berkeley City College (3.97 GPA) — Berkeley, CA
Associate's in Computer Programming, Physics and Mathematics — *Jun. 2022 – May 2025*

Relevant Coursework: (* for Current/W) Data Structures & Algorithms (98% A), Designing Information Devices and Systems I & II*, Computer Architecture & Machine Structures, Object-Oriented Programming, Structure and Interpretation of Computer Programs, Java Programming*, Classical/Electromagnetic/Modern* Physics, Linear Algebra, Diff EQs, Calculus I/II/II, Energy and Society*

Certificates: Advanced Google Analytics, SEO I & II, Social Media Marketing, Content Marketing, Inbound Marketing

Activities: Berkeley Electronics & Engineering, PBL, International Software Product Management Assoc., CompSci Undergrad Assoc

Experience

Undergraduate Deep Learning Researcher — October 2023 – January 2024
Stanford Center for Clinical Research — *Palo Alto, CA*

- Worked with a team of PhD students to research and develop a Large Language Model technology which can accurately create personas and conversations which emulate real human behavior, to be used for clinician training at Stanford Medicine
- Implemented a Mixture-of-Experts architecture, generating near-infinite context length in conversations between trainees and AI
- Experimented making a domain-specific language in Java to better align LLM outputs using psychopathy-informed logic gates

Software Engineer — October 2023 – Present
ANRE AI & Research, ANRE AI @ UC Berkeley and Berkeley City College — *Berkeley, CA*

- Built a SvelteKit frontend and Tauri deployment of our AI powered research assistant platform, enabling seamless data visualization and organization of project information for our Beta of 100+ users
- Architected and implemented a scalable ETL (Extract, transform, load) pipeline, processing 2.4 million ArXiv papers to facilitate advanced Natural Language Processing, improving research efficiency by 30% for beta users of our research assistant platform
- Founded our university and city college organization, training 30+ interns in Full-stack development & Machine Learning
- Currently spearheading research initiatives in collaboration with professors across Computer Science, Physics, and Quantum Theory

Software Engineering Intern — June 2024 – August 2024
IvyCode Consulting — *Berkeley, CA*

- Designed and trained a skincare AI using TensorFlow and OpenCV, achieving a 93% accuracy rate in blemish detection
- Conducted user experience interviews and workshops with stakeholders, gathering valuable insights that informed the design and implementation of intuitive AI-driven applications, resulting in a 25% increase in user satisfaction

Computer Science, Physics and Math Tutor & Computer Science TA — August 2023 – Present
Berkeley City College Learning Resources Center, Freelance Tutoring — *Berkeley, CA*

- Tutored over 400+ hours in 13+ courses of Computer Science, Math & Physics in-person/online, specializing in Data Structures
- Provided embedded tutoring in CS courses, alongside independently instructing and facilitating lab sections and open discussion

Co-Founder & President — August 2022 – Present
Berkeley Applied Mathematics — *Berkeley, CA*

- Co-Led 10+ math competitions & AMATYC workshops with professors and organized events and panels covering theoretical math
- Led and organized math office hours for courses and provided drop-in tutoring support for students at UC Berkeley and City Col

Projects

CRAM - OpenProject | *OpenCV, React.js, Flask, PostgreSQL, Firebase, Python* — August 2024 - December 2024

- Implementing a CV model for HARP Research, adding advanced technologies such as Rapid Serial Visual Presentation, eye-tracking, & intelligent formula parsing to significantly increase reading speed and comprehension, facilitating efficient note-taking.

S1XT33N Voice Controlled Machine Learning Car - EECS 16B | *Arduino, C++, Hardware* — January 2024 - May 2024

- Built from scratch a voice-controlled car using a custom microphone circuit and bandpass filter for voice detection, employing unsupervised machine learning (PCA and k-means clustering) to interpret commands and control motion

Script Generator & Engagement Platform | *Python, C++, TensorFlow C++ API, Docker* — April 2024 - June 2024

- Developed a platform using TensorFlow's C++ API and neural networks for script generation and video analysis
- Built functionality for uploading social media accounts to enable video transcription and analysis with FastAPI and distributed computing, featuring a custom Node.js UI/UX

Microplastics Embedded AI Camera | *OpenCV, C++, MySQL, Raspbian Linux* — May 2023 - July 2023

- Wrote code for a submerged camera model which detects microplastics underwater using Computer Vision
- Enhanced model efficiency through data augmentation, hyperparameter tuning, and attention mechanisms

Technical Skills

Backend: Python, Java, C/C++, X86 Assembly, Rust, Pandas, NumPy, Go, SQL, Swift, Redis, Flask, MongoDB, Milvus, RestAPI
Frontend: React.js, SvelteKit, Next.js, Node.js, Angular, ShadCN, TailwindCSS, TypeScript, JavaScript, HTML/CSS, Ajax, Bootstrap
Machine Learning: TensorFlow, PyTorch, Keras, SciKit-Learn, NLTK, OpenCV, Langchain, MLflow, Sagemaker, Apache, SpaCy, DL4J
Developer Tools: Kubernetes, Docker, CUDA, Apache Spark, TravisCI, AWS, Azure, Google Cloud Platform, Git, Hugging face, Linux
Interests: Philosophy, Cryptography, Business, Content Creation, Photography, Nature, Rock Climbing, Weightlifting, League of Legends