

EDUCATION

University of California, Berkeley

Bachelor of Arts in Economics

Bachelor of Arts in Data Science

Minor in Computer Science

Planned Graduation: May 2027

Berkeley, CA

RELEVANT COURSEWORK

- Structure and Interpretation of Computer Programs

- Introduction to Probability and Statistics

- Principles and Techniques of Data Science
- Macroeconomics

- Data Structures

- Microeconomics
- Econometrics

- Linear Algebra

EXPERIENCE

necoTECH

Intern

May 2023 - September 2023

Delaware, OH

- **Tracker:** Centralized contract/lead management in a single Google Sheets/Excel pipeline; defined stages & ownership; added Apps Script dedupe/status nudges.

- **Strategy + mentorship:** Co-developed the initial marketing playbook (social, networking, outreach templates) with founders and two mentors, including an experienced entrepreneur who coached me on startup ops, cash flow, and go-to-market.

- **Gov contracts:** Built Python (pandas) scripts to surface/structure government procurement opportunities; cleaned/tagged opportunities and fed prioritized leads into the tracker.

- **Outcome:** Delivered a repeatable, company-wide process for consistent outreach and timely proposal prep, helping the team identify and pursue government contracts and partnerships.

Full stack developer (Freelance)

January 2024 - Present

- Shipped three client projects end-to-end using Next.js with TypeScript; worked directly with stakeholders from scope to launch.

- Implemented authentication where needed and integrated analytics APIs to monitor usage and guide content updates.

- Optimized for performance, accessibility, and reliability; containerized with Docker and deployed/maintained on DigitalOcean with GitHub for source control.

- Delivered real outcomes: built and launched a paid site for an environmental nonprofit that now actively serves community visitors (example: northcentralohiopollinatorpathway.org).

ACADEMIC PROJECTS

- **CS 61B (Data Structures & Algorithms, Java):** Implemented ArrayDeque and LinkedListDeque (circular sentinel), BSTMap, and project features (iterators, equals, toString, resizing). Wrote JUnit tests and analyzed runtime; explored how maps/queues can model basic order-book mechanics.

- **Self-Directed AI/ML Coursework (PyTorch):** Completed practical courses covering tensors & autograd, nn.Module, DataLoaders, training/evaluation loops, overfitting control (regularization/early stopping), and basic model types (MLP/CNN); used NumPy/Pandas for preprocessing and small applied exercises.

- **Supplemental Online Study:** Python & backend fundamentals, plus quantitative topics (stochastic processes, numerical optimization, introductory quantitative finance) with small practice projects.

INDEPENDENT PROJECTS

- **Breakout Study Tool (active, private):** Built a web app for studying breakout patterns across ~10,000 tickers using yfinance + pandas, with a Next.js/TypeScript front end. Scans multiple timeframes (intraday 1/5/15 min & 1h, plus daily/weekly), adds chart overlays, notes, and simple up/down classifications. Deployed on DigitalOcean with Supabase Auth (admin/user) and storage via Google Drive/Supabase; used daily by me and my dad for pattern practice. (Link: trade.evwillow.com — currently private)

- **Live Intraday Scanner (Thinkorswim + JS):** Wrote a JS pipeline that feeds custom scans into Thinkorswim watchlists for real-time candidates; notably surfaced CLSK ahead of a breakout for discretionary review

- **Job-Opportunity Scraper (Python):** Aggregates roles from LinkedIn, Greenhouse, and Indeed into CSV for targeted applications; handles “thousands” of U.S. postings with filters/keywords to speed search and triage.

- **Cat-vs-Dog Classifier (TensorFlow, local GPU):** Collaboratively trained a CNN on a local GPU to classify images with solid accuracy; managed compute usage (batch sizing/runtime) to run reliably on limited VRAM—giving hands-on experience with GPU workflow basics.

TECHNICAL SKILLS

Languages: Python, Java, C, JavaScript, SQL, HTML/CSS
Frameworks/Libraries: React, Next.js (Router), Node.js, Tailwind CSS, FastAPI, pandas, NumPy, TensorFlow, PyTorch, Recharts, JUnit
Tools & Platforms: Linux, Docker, Git & GitHub (GitHub Actions), SSH, DigitalOcean, Supabase (Auth, Storage), PostgreSQL, Python venv

LEADERSHIP & ACTIVITIES

Founder and President	Student Climate Action Team (SCAT)	January 2023 - August 2024
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- Founded and led a 10-person team; organized ~30 policy-focused events (~30 attendees on average).
- Partnered with **Sustainable Delaware Ohio** and campus groups to support outreach for a city policy projected to reach ~10,000 households (per city/NGO estimates).
- Built and maintained a lightweight **React** website to centralize resources and sign-ups. Presented initiatives to **City Council**; work received local media coverage.

Eagle Scout	Schultz Elementary Environmental Project (Delaware, OH)	Oct 2023
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- Coordinated ~100 participants to extend woodland/trail access with signage and trail markers; managed ~\$1,000 materials budget and stakeholder approvals (Board of Education, community partners).

Global Scholar Diploma	Columbus Council on World Affairs	April 2023
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- Completed seminars and a capstone on environmental policy/economics.

Berkeley Computer Science Association (CSA) — Member	August 2025 - Present
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Undergraduate Economics Association (UEA) — Member	August 2025 - Present
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LANGUAGES

English: Native
Spanish: Advanced (near-fluent) — speaking, reading, writing
Chinese: Conversational; actively studying for professional use

INTERESTS

Interests: Full-stack engineering, data pipelines, applied ML (PyTorch/TensorFlow), market-data tools, climate software, product-led entrepreneurship.