

Cameron Byrne

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EDUCATION

University of California – Santa Barbara

Santa Barbara, CA

Bachelor of Science in Computer Science

Expected Jun 2026

- **GPA:** 3.9/4.00 (Dean's Honors in 6 of 7 Quarters) – SAT: 1550
- **Coursework:** Data Structures & Algorithms, Object Oriented Programming (OOP), Computer Organization & Logic, Discrete Math, Differential Equations, Probability & Statistics, App Development
- **Involvements:** SB Hacks, Coders SB, Data Science UCSB, IM Soccer, Co-ed Professional Business Fraternity

EXPERIENCE

Software Engineering Intern

Feb 2025–Present

Benioff Ocean Science Laboratory

Santa Barbara, CA

- Developed an educational app using Expo and React Native for iOS, Android, and Web with a unified codebase
- Created interactive minigames simulating computer vision model training to teach machine learning concepts
- Tested and deployed on multiple devices to ensure quality, achieving 95% compatibility on major mobile platforms
- Developed in preparation for presentation at the UN Ocean Conference 2025.

Software Engineering Intern

Jun 2024–Sep 2024

Parkworth Wealth Management, Inc.

Los Gatos, CA

- Crafted and launched a Django full-stack FinTech SaaS platform, cutting manual work of specific processes by 85% for wealth management professionals by automating tax-planning workflows for speed and accuracy
- Leveraged Redis servers and Celery workers with GPT-4o to modify financial databases in PostgreSQL
- Presented software to 4 clients and adapted both frontend and backend to fit requested features from feedback

Software Engineer

Jan 2024–Jan 2024

SB Hacks (Largest Hackathon @ UCSB)

Santa Barbara, CA

- Coordinated team to build a full-stack CRUD web app in 48 hours for student food reviews at campus dining halls
- Harnessed UCSB Dining API to capture 15+ live daily menu updates and integrated **Google Firebase** backend
- Commanded 4 devs applying a Kanban board, **Agile** methodology, and mini scrums in a Github team environment

PROJECTS

Alumni Book (1000+ users) | TypeScript, Next.js, Supabase, OpenAI API, Puppeteer

Jul 2025–Present

- Built a full-stack alumni directory with AI-powered search, supporting 900 profiles and natural-language queries
- Designed Supabase backend with auth, edge functions, and admin upload dashboard to manage live alumni data
- Deployed LinkedIn scraper using Puppeteer and Chromium stealth mode; mapped big/little trees with D3.js visualizations

Super BERT | Python, Hugging Face Transformers, PyTorch, NumPy, SeqEval

Feb 2025–Feb 2025

- Optimized and enhanced a BERT model for effective Named Entity Recognition of sentences at 90% accuracy

Texting Twin | Python, PowerShell, Discord.py, MongoDB, OpenAI API, MySQL

Jan 2025–Feb 2025

- Developed an AI Discord chatbot mimicking my texting style using GPT-3.5 fine-tuned on 10000 queried messages
- Integrated MongoDB NoSQL for live chat history retrieval, storing 10,000+ messages and supporting 50+ users
- Designed an async architecture with Asyncio, reducing response time by 30% and handling 15+ concurrent users

NVIDIA Advisor | Python, TypeScript, React, Tailwind, FastAPI, Next.js, OpenAI API

Sep 2024–Dec 2024

- Built a full-stack web app that leverages Reddit sentiment analysis to generate investment advice, reducing decision-making time by 80% for amateur stock traders
- Implemented PRAW and NLTK to scrape and analyze 1000+ Reddit posts across 5 investing subreddits
- Produced custom data visualizations of stock trends and signals using the Alpha Vantage API

TECHNICAL SKILLS

Languages: C/C++, Python, Java, SQL, JavaScript, TypeScript, HTML/CSS, R, LaTeX

Dev Tools: Git, PostgreSQL, mySQL, MongoDB, Firebase, Redis, Celery, Docker, Django, Heroku, Vercel, Bootstrap, Maven, npm, RStudio, Vite, React, Next.js, Angular, FastAPI, Rest APIs, OpenAI, PyTorch, NumPy, Agile, DevOps

Interests: Soccer, Photography, Cooking, Lifting, Running, Fashion, Self-Improvement