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

National University of Singapore   Singapore
University of California Education Abroad Program: UI/UX Design Focus   *Jan 2025–May 2025*

EXPERIENCE

Software Engineering Intern   Feb 2025–Present
Benioff Ocean Science Laboratory   *Santa Barbara, CA (Remote)*
- 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

Software Engineering Intern   Jun 2024–Sep 2024
Parkworth Wealth Management, Inc.   *Los Gatos, CA*
- Crafted and launched a Django full-stack B2B FinTech SaaS platform to automate tax-planning workflows
- Reduced manual processing time by 85% for wealth management professionals, increasing task 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
- Directed 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, d3.js*   May 2025–Present
- Built a full-stack alumni directory with AI-powered NLP search, reducing query time by 70% across 900+ profiles
- Designed Supabase backend with auth, edge functions, and dashboard enabling full CRUD ops with <1s latency
- Wrote automation scripts to enrich 90%+ of total profiles with Node.js's Puppeteer WebDriver to scrape LinkedIn
- Presented to Alpha Kappa Psi's CEO, a fraternity with 200+ chapters across 4 countries and 300,000+ members

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 10,000 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 investment advisor leveraging Reddit sentiment to cut amateur investors' decision time by 80%
- Implemented PRAW and NLTK to scrape and analyze 1000+ Reddit posts across 5 investing subreddits
- Produced custom data visualizations of predicted stock trends and signals using the Alpha Vantage API

TECHNICAL SKILLS

Languages: C/C++, Python, Java, JavaScript/TypeScript, SQL, HTML/CSS
Frameworks & Libraries: Django, FastAPI, React, Next.js, Angular, PyTorch, NumPy
Databases & Cloud Tools: PostgreSQL, MySQL, MongoDB, Supabase, Redis, Docker, Git, Vercel, Heroku
Interests: Soccer, Photography, Cooking, Lifting, Running, Fashion, Self-Improvement