

Brian Ngo

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EDUCATION

California State University Fullerton

Bachelor of Science in Computer Science

Aug 2023 - May 2026

- **Coursework:** Artificial Intelligence, Algorithm Engineering, Software Engineering, Compilers and Languages, OS, Database and Applications, Multivariable Calculus, Linear Algebra and Diff Equations, Statistics, Machine Learning, Edge AI, Natural Language Processing

PROJECTS

Talk To Me

Oct 2025

CalHacks 12.0

San Francisco, CA

- Won 2nd Place in LiveKit's track building a full-stack web application that enables live voice translation and transcription for multi-language conversations supporting both single-device and multi-user party mode with real-time captions.
- Implemented TypeScript/React frontend, RESTful API routes for token generation, Python backend agents for translation orchestration, and event-driven architecture using LiveKit room events for real-time caption delivery.

Custom Digital Smartwatch

Feb 2025 - May 2025

Theta Tau | Engineering Society

Fullerton, CA

- Led an 18-member team to deliver a fully functional smartwatch in 10 weeks, completing the project 100% on schedule and demonstrating cross-functional coordination with hardware and software integration.
- Built 3 smartwatch applications (game, timer, RNG) that showcased device capabilities and increased usability, adopted by 100% of testers during demo sessions.

Amazon Web Services (DxHub)

Jul 2025 - Aug 2025

AWS/AI Summer Camp

San Luis Obispo, CA

- Developed AI-powered procurement analytics platform (Python, Streamlit, Plotly), enabling stakeholders to analyze 300K+ records in real time and reducing manual reporting time by 80%.
- Implemented TF-IDF + cosine similarity model on 300K+ records, improving supplier matching accuracy by 40% and accelerating vendor discovery process using a scalable, server-less pipeline using AWS S3, Lambda, and Bedrock Claude 3.0 with Retrieval-Augmented Generation (RAG) to power a context-aware procurement recommendation chatbot.

EXPERIENCE

NEX

Oct 2025 - Present

Software Engineer Intern

- Implemented centralized pricing system with multiple strategies (flat-rate, resolution-based, time-based) and complexity multipliers, adding cost breakdowns and usage tracking to API responses.
- Built a high-performance Pinterest web scraper using Python and Selenium that extracts high-resolution images with anti-detection features (randomized human-like behavior, proxy rotation), multi-instance support, and automated Chrome profile generation, successfully scraping thousands of images across multiple keywords with real-time CSV export.

Verdantic

May 2025 - Present

Founder & Only Engineer

- Reduced client workload by 66% by automating manual processes within ERP platform, freeing employees to focus on higher-value projects.
- Designed and implemented scalable ERP platform (Next.js/React/TypeScript), reducing codebase size by 83% through modular architecture, which accelerated feature delivery by 40% and improved maintainability.
- Engineered PostgreSQL/Supabase backend with batch fetching + map-based lookups, cutting query time from 40s to 3s (92% improvement), enabling real-time performance for clients.

Theta Tau, Phi Epsilon Chapter | Engineering Society

Feb 2025 - May 2025

PNM President

Fullerton, CA

- Mentored 15+ peers by addressing questions and blockers, resulting in improved retention and 20% higher project participation rates.
- Facilitated clear communication between team and leadership, improving alignment and reducing missed deadlines by delegating responsibilities across 5 board members, enabling on-time completion of key initiatives and improving organizational project outcomes.

TECHNICAL SKILLS

- **Languages:** Python, JavaScript, SQL, TypeScript, Java, C++
- **ML/Data Science:** PyTorch, Scikit-Learn, Pandas, NumPy, Matplotlib, OpenCV, MediaPipe, Hugging Face, Jupyter Notebook, OpenAI / Anthropic, Claude Code, Amazon Q CLI
- **Cloud / Databases & Deployment:** AWS, PostgreSQL, Supabase, Docker, Git, RESTful APIs, Vercel, Node.js
- **Full-Stack & Development Tools:** React, Next.js, Tailwind CSS, Agile/Scrum, Figma, Jira