

# Brian Ngo

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## EDUCATION

### California State University Fullerton

Aug 2023 - May 2026

*Bachelor of Science in Computer Science*

- **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