Brian Ngo

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EDUCATION

California State University Fullerton

B.S. in Computer Science, Minor in Data Science

- **Achievements:** Dean's Honor List
- **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

EXPERIENCE

NEX   **Oct 2025 - Present**

Software Engineer Intern

- Developed internal tools and dashboards that streamlined workflows for operations and sales, enabling teams to analyze pricing and manage assets more efficiently, reducing manual effort by 30% and accelerating decision-making to drive revenue growth.
- Built a flexible pricing system that delivered transparent cost breakdowns and usage insights, enabling the business to predict revenue accurately and streamline billing across all customers through a single API.
- Automated large-scale image collection, developing a resilient web scraping system that gathered thousands of high-quality assets across keywords, minimizing manual effort and ensuring consistent, reliable data for business operations.

Verdantic   **May 2025 - Present**

Founder

- Founded and built a cloud-based ERP platform designed to support concurrent users with production-grade reliability, enabling teams to operate efficiently without performance bottlenecks.
- Improved client operational efficiency by 300% from automating manual workflows and optimizing database performance, cutting query latency from 40s to 3s, and enabling real-time usage.

Theta Tau, Phi Epsilon Chapter | Engineering Society   **Feb 2025 - May 2025**

PNM President, Professional Development Chair, Web Development Chair   *Fullerton, CA*

- Led cross-functional coordination across a 5-member board to improve execution reliability, reducing missed deadlines and ensuring timely delivery of organizational initiatives.
- Supported members' career readiness through technical workshops and resources for SWE opportunities, while designing and maintaining the organization's official website, **https://www.csufthetatau.com/.**

PROJECTS

Talk To Me: Breaking the Language Barrier | github.com/Beusted/talk-to-me   **Oct 2025**

CalHacks 12.0   *San Francisco, CA*

- Built a real-time voice translation product that enables multilingual users to communicate naturally in live conversations, earning **2nd Place at CalHacks** for improving accessibility and cross-language collaboration.
- Delivered low-latency live captions by translating spoken audio into synchronized text streams, supporting both single-user and group sessions through an event-driven, full-stack implementation.

Mood To Music: Facial Emotion Recognition to Music Recs | github.com/Beusted/MoodToMusic   **Sep 2025 - Dec 2025**

California State University, Fullerton   *Fullerton, CA*

- Created an emotion-aware music recommendation system that adapts playlists in real time based on user facial expressions, delivering immediate, personalized recommendations that uplifted user's overall mood and mental satisfaction.
- Designed an end-to-end ML pipeline that converts detected emotions into music preferences using learned emotional mappings, integrating real-time inference into a production-ready web experience.

Amazon Web Services (DxHub)   **Jul 2025 - Aug 2025**

AWS Summer Camp   *San Luis Obispo, CA*

- Developed a procurement analytics platform that enabled stakeholders to explore 300K+ records in real time, reducing manual reporting effort by 80% and accelerating data-driven decisions.
- Improved supplier discovery accuracy by 40% by implementing semantic similarity search and a context-aware recommendation workflow that scaled efficiently on server-less cloud infrastructure.

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