

# Brian Ngo

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## EDUCATION

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California State University, Fullerton

Fullerton, CA

Bachelor of Science, Computer Science, Minor: Data Science

Expected Graduation: May 2026

- Achievements: Dean's Honor List
- Coursework: Artificial Intelligence, Algorithm Engineering, Software Engineering, Compilers and Languages, Multivariable Calculus, Linear Algebra and Diff Equations, Statistics, Machine Learning, Edge AI, NLP

## EXPERIENCE

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Software Engineer Intern | NEX

October 2025 - Present

- Led full-stack development of a **custom, internal CRM** (Next.js, Prisma, PostgreSQL) at an **early-stage startup** to manage the complete B2B sales lifecycle of customers, touchpoints, and tasks, like automated emails, Slack notifications, and scheduled alerts w/ cron jobs, **improving sales team productivity by 5x**.
- **Designed and deployed a production MCP server** exposing 40+ agentic tools over stateless HTTP, enabling AI agents to autonomously execute sales workflows by architecting the tool-calling schema, action routing, and agent decision boundaries from scratch.
- Embedded with the sales team throughout development by **conducting discovery sessions** to surface workflow pain points, translated operational needs directly into CRM features, and owned the product end-to-end from scoping to deployment, shipping changes that directly shapes how the team operates day-to-day.
- Engineered a **multi-layer security architecture** with Clerk auth, OAuth 2.0 + PKCE (HMAC-SHA256 token hashing), Upstash Redis rate limiting, role-based access control, and a full audit log capturing every API operation, **eliminating security risks** from static API keys across all integrations.

Founder | Verdantic

May 2025 - April 2026

- Founded Verdantic and led client discovery end-to-end by interviewing stakeholders, scoped business requirements, and architected a **custom cloud-based ERP** as the technical solution, owning delivery from initial conversation to production deployment.
- **Improved client operational efficiency by 300%** by automating manual workflows and optimizing database performance, cutting average query latency from **40s** → **3s** and enabling real-time usage.

Professional Development Chair, Web Development Chair | Theta Tau, Phi Epsilon Chapter

Feb 2025 - May 2026

- Designed and maintained the organization's official website ([csufthetatau.com](https://csufthetatau.com)) and delivered technical workshops that improved member career readiness for SWE recruiting pipelines.

## PROJECTS

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Talk To Me: Breaking the Language Barrier | [github.com/Beusted/talk-to-me](https://github.com/Beusted/talk-to-me)

October 2025

- **Won 2nd Place at CalHacks** for LiveKit's Track by shipping a real-time multilingual voice translation product in 36 hours, designing an agent-to-agent audio pipeline with low-latency live captions, demonstrating rapid prototyping and production delivery under pressure.
- Implemented an event-driven, full-stack architecture that synchronized translated audio streams into real-time text, supporting accessibility and cross-language collaboration at scale.

Mood To Music: Facial Emotion Recognition to Music Recs | [github.com/Beusted/MoodToMusic](https://github.com/Beusted/MoodToMusic)

Sep 2025 - Dec 2025

- Designed an LLM-augmented ML pipeline that maps real-time facial emotion to personalized music recs, applied prompt engineering and AI evaluation to tune recommendation quality, deploying to a production React web app.
- Integrated real-time inference combining OpenCV, MediaPipe, and a recommendation engine into a full-stack deployment that **measurably improved user mood satisfaction scores**.

Amazon Web Services (DxHub) | AWS Summer Camp

Jul 2025 - Aug 2025

- **Developed an agentic procurement analytics platform** on AWS (Bedrock, Lambda, Q Developer) enabling stakeholders to explore 300K+ records in real time.
- Improved supplier discovery accuracy by 40% using semantic similarity search and a context-aware recommendation workflow, **designing the agent's reasoning and tool-calling architecture** to surface actionable sourcing decisions autonomously on serverless infrastructure.

## TECHNICAL SKILLS

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**Languages / Frameworks:** TypeScript, React, Python, GraphQL, JavaScript, Next.js, SQL, Java, C++

**Development Tools:** Claude Code / GSD, Codex, Google Antigravity, AWS Kiro, Cursor, Jira, Agile/Scrum, Figma

**ML/Data Science:** PyTorch, Scikit-Learn, Pandas, NumPy, Matplotlib, OpenCV, MediaPipe, Jupyter Notebook

**Cloud / Databases & Deployment:** AWS, PostgreSQL, Supabase, Docker, Git, RESTful APIs, Vercel, Node.js