

TONY NGUYEN

714-858-3631 | tonynguyeenn@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

EDUCATION

UC San Diego

Master of Science in Computer Science, GPA: 3.67

La Jolla, CA

Expected 2026

UC San Diego

Bachelor of Science in Computer Science, GPA: 3.94

La Jolla, CA

EXPERIENCE

Instructional Assistant

UCSD Computer Science Department

Aug 2023 – Present

La Jolla, CA

- Design and lead weekly labs for Software Engineering course (200 students), creating labs and tutorials in Java
- Develop materials including practice problems and debugging guides used by 700+ students across multiple courses
- Conduct office hours for Software Engineering, Algorithms, Python Programming, and Theory of Computation
- Mentor student teams on software design patterns, OOP principles, and full-stack project development

Software Engineer Intern

Choir Power

Feb 2024 – April 2025

La Jolla, CA

- Built a comprehensive React dashboard for B2B clients to visualize and analyze historical electricity usage patterns, detailed cost analysis metrics, and ML-driven predictive consumption forecasts
- Integrated AWS cloud services (Lambda, API Gateway, S3) to deliver real-time smart meter data updates to the dashboard interface, improving API response time by 30%
- Optimized frontend performance through code refactoring, lazy loading, and component optimization, reducing dashboard load time by 40% and enhancing user experience for 5 enterprise clients
- Participated in Agile development cycles including daily standups, bi-weekly sprint planning sessions, and collaborative code reviews with cross-functional engineering team

PROJECTS

meap - Meal Prep Assistant | *Next.js, React, TypeScript, SQL, Supabase, React Native*

Jan 2025 – Present

- Built comprehensive fullstack nutrition tracking app enabling users to create custom recipes, track daily macros, and manage ingredient/recipe inventory across web and mobile platforms
- Developed mobile prototype using React Native and Expo to validate cross-platform approach, then rebuilt web version from scratch with Next.js and TypeScript
- Architected PostgreSQL database schema with user authentication, recipe approval workflow system, and real-time inventory management; designed REST API architecture for cross-platform use
- Deployed live at meapprep.vercel.app with CI/CD pipeline; currently building interactive demo mode and planning mobile app relaunch using the improved architecture – Source Code: [Web](#), [Mobile](#)

Toned - Workout Tracker | *Next.js, React, Javascript, MongoDB*

Jan 2024 – Nov 2024

- Built fullstack workout tracking app enabling users to plan daily workout routines, log exercises with sets and reps, and visualize progress trends with interactive charts
- Designed REST API with MongoDB for handling workout programs, comprehensive exercise library, and historical user progress data with full CRUD operations
- Implemented secure user authentication with AuthJS and built responsive UI optimized for mobile workout logging during gym sessions and desktop planning
- Deployed live at tonedapp.vercel.app with CI/CD pipeline – Source code: [GitHub](#)

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Java, Python, C/C++, SQL (PostgreSQL), HTML/CSS

Frameworks & Libraries: React, Next.js, React Native, Node.js, Expo, Tailwind CSS, Flask, JUnit

Tools & Technologies: Git, GitHub, Supabase, MongoDB, AWS (Lambda, S3, API Gateway), Docker, Vercel

Concepts: REST APIs, Agile Development, Machine Learning Deployment, Authentication, Database Design, CI/CD