

Jayden Tan

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EDUCATION

University of California, Santa Barbara

Santa Barbara, CA

Bachelor of Science in Computer Science - GPA: 3.96

Expected Graduation: June 2027

- **Relevant Coursework:** Data Structures and Algorithms, Object Oriented Design and Implementation, Foundations of Computer Science, Linear Algebra, Differential Equations, Vector Calculus

WORK EXPERIENCE

Construction Data Innovations

June 2025 – Present

Software Engineering Intern

Santa Barbara, CA

- Collaborated in a 6-person team to develop full-stack features for ConstructWise, a construction risk management platform, using **NextJS**, **TailwindCSS**, and **Django REST Framework**.
- Designed interactive **AI-Powered** cost estimate tool with **Claude API** for probabilistic cost forecasting, generating comprehensive list of **4+** CSI subgroups and **20+** CSI items costs for construction projects, enabling contractors to simulate cost/schedule risks with **96%** accuracy.
- Automated task extraction from construction with **Supabase Storage**, reducing manual data entry by **70%**.

Code Ninjas

May 2022 – Sep. 2024

Coding Instructor

Folsom, CA

- Taught Javascript and C# fundamentals to over **200+** students K-12 through game development projects.
- Onboarded **10+** new instructors on curriculum, classroom management, and student communication strategies.
- Facilitated tours with prospective students, communicating program value and achieving an **80%** enrollment rate.

PROJECTS

Artistle | NextJS, TailwindCSS, Auth0, AWS Lambda, DynamoDB, Upstash-Redis, Flask

June 2025

- Developed a Wordle-inspired, interactive daily puzzle game where players guess Spotify artists, built with **NextJS** and **Tailwind CSS** for responsive frontend, **Flask** for backend, and **Auth0** for secure user authentication.
- Utilized **AWS** serverless architecture (**Lambda**, **DynamoDB**, **CloudWatch Events**) to generate new artists daily and track player stats with **Redis** caching to reduce API calls by **40%**, enabling automatic scaling.

UCSB-Dine-In | NextJS, NodeJS, TailwindCSS, Supabase, UCSB Student Developer API

Jan. 2025

- Created **NextJS** website for **UCSB** students to view and provide their own reviews on dining hall meals around campus, utilizing **Supabase** to store review information and images, and **TailwindCSS** for styling.
- Leveraged **UCSB Student Developer API** to retrieve and display **200+** unique food items from **4** dining halls to provide users with accurate and up-to-date information.
- Spearheaded design and development while mentoring **3** novice teammates in full stack fundamentals.

NinjaBucks Reward Dashboard | ReactJS, ExpressJS, NodeJS, MongoDB

July 2024 – Aug. 2024

- Designed and developed **ReactJS** rewards dashboard to display balances and transaction history for instructors and students to monitor and modify for rewards based on in-class performance, storing data within **MongoDB**.
- Utilized **ExpressJS** to manage routing and HTTP requests efficiently, facilitating authentication, data retrieval, and error handling between ReactJS front-end client and **Node.js** server.
- Implemented into three CodeNinjas franchises, serving the needs of **150+** students and **40+** instructors.

ACTIVITIES

SB Hacks

August 2025 – Present

Full-Stack Developer

Goleta, CA

- Redesigned and optimized NextJS/TailwindCSS website and integrated **CI/CD** workflows (**Github Actions**) to support **Agile** development, streamlining registration, application, and communication for **450+** participants.
- Implemented backend services with **Firebase** to ensure secure and scalable handling of participant data.

SKILLS

Languages: Python, HTML, CSS, C++, SQL, Java, JavaScript, Typescript, SQL

Frameworks: NextJS, ReactJS, ExpressJS, TailwindCSS, Flask, Django

Technologies: PostgreSQL, NoSQL, AWS Lambda, DynamoDB, Git, Postman, MongoDB, Supabase, Redis, Vercel, Jira