

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:** Problem Solving with Computers I, Problem Solving with Computers II, 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 6-person teams to develop full-stack features for ConstructWise, a construction risk management platform using **NextJS**, **TailwindCSS**, and **Django REST Framework**, enabling contractors to simulate cost/schedule risks with **96%** accuracy.
- 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.
- Built document processing with **Supabase Storage** to extract tasks from construction plans, reducing manual data entry by **70%**.

Code Ninjas

May 2022 – Sep. 2024

Coding Instructor

Folsom, CA

- Taught Javascript and C# fundamentals to over **50+** students K-12 through game development projects.
- Onboarded and trained **10+** new instructors on coding curriculum, classroom management, and parent-student communication strategies.
- Facilitated tours and consultations with parents, communicating program value to prospective students, achieving an **80%** enrollment rate.
- Recognized the need for an organized management system and took initiative to independently design and develop NinjaBucks Dashboard, a platform for users to track and modify CodeNinjas' currency.

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 automatic scaling.
- Implemented **Redis** caching to reduce API calls by **40%**, optimizing performance.

UCSB-DineIn | *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 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 student 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 client and Node.js server.
- Implemented into three CodeNinjas franchises, serving the needs of **150+** students and **40+** instructors.

SKILLS

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

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

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