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 RiskWise, 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: AWS Lambda, DynamoDB, Git, Postman, MongoDB, Supabase, Redis, MacOS, Windows, Vercel