Jayden Tan

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EDUCATION

University of California, Santa Barbara   **Santa Barbara, CA**
Bachelor of Science in Computer Science - GPA: 3.86   *Expected Graduation: June 2027*
- **Relevant Coursework:** Data Structures and Algorithms, Object Oriented Design and Implementation, Discrete Math, Computer Architecture, Linear Algebra, Differential Equations, Vector Calculus

WORK EXPERIENCE

Construction Data Innovations   **June 2025 – Sep. 2025**
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, Redis, Flask*   **June 2025 – July 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**
Development Officer   *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
Frameworks: NextJS, ReactJS, ExpressJS, TailwindCSS, Flask, Django
Technologies: PostgreSQL, NoSQL, AWS Lambda, DynamoDB, Git, Postman, MongoDB, Supabase, Redis, Vercel, Jira