

# BRIAN TRAN

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## PROJECTS

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### Blue Road Web Application – [Link](#)

Tech Stack: MERN (MongoDB, Express.js, React, Node.js), Tailwind CSS

- Developed a full-stack web application in vanilla JS and CSS with React integration for Azur Lane optimization tool, calculating real-time eHP for 200+ ships with dynamic equipment configurations.
- Engineered RESTful API with MongoDB aggregation pipelines achieving <500ms response times for complex calculations.
- Implemented React DND interface with 6-slot fleet system and real-time filtering across 3+ attributes.
- Deployed using GitHub Pages for frontend hosting and Render for backend services, with automated CI/CD pipelines for zero-downtime updates.

### Project Manager Web Application – [Link](#)

Tech Stack: MERN (MongoDB, Express.js, React, Node.js)

- Spearheaded the development of a project management web application with a 5-person team using Agile methodology and Scrum practices.
- Delivered key features:
  - Implemented session based AuthN utilizing PassportJS and simple username/password AuthZ.
  - Developed end-to-end integration of RESTful APIs to serve tasks/comments/users data with Axios.
  - Task collaboration system enabling project sharing and permission management.
  - Built responsive React components including drag-and-drop modules, date picker setting, and dynamic task creation forms.
- Reduced task creation time by 30% vs. Trello and 50% vs. Jira in user testing by streamlining UI navigation and simplifying ticket workflows.

### Leung Noodle – [Link](#)

Tech Stack: JavaScript, React, React Router, Vercel, Google API

- Built a responsive multi-page website with interactive menu system, location-based contact pages, and Square ordering integration for a 2-location serving around 200+ users daily.
- Implemented dynamic category filtering, modal-based item customization, and embedded Google Maps API with real-time navigation and reducing customer friction by enabling one-click directions and phone calls.
- Deployed on Vercel with <500ms load times and optimized mobile responsiveness, serving as a primary discovery platform before handing off to Square for ordering.

## EDUCATION

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### University of California, Santa Cruz

Bachelor of Science in Computer Science | GPA: 3.8

August 2023 – June 2025

### Evergreen Valley College

Transferred | GPA: 3.9

May 2021 – August 2023

## TECHNICAL SKILLS

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**Languages:** JavaScript/TypeScript, Python, Java, C/C++

**Frameworks & Libraries:** React, Node.js, Express, MongoDB, Discord.js, NumPy, three.js, SciKit-learn

**Tools & Platforms:** Git/GitHub, Linux (Ubuntu), Jira, Trello, VirtualBox, RESTful API

**Concepts:** OOP, Algorithms & Data Structures, Networking, Shader Programming, Web Server Optimization, Agentic Training

## RELEVANT COURSEWORK

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- **Data Structures & Algorithms** (C/C++) – Implemented tree, graph, and sorting algorithms
- **Computer Graphics** (JavaScript) – Developed WebGL shaders and 3D models
- **Intro to Software Engineering** (JavaScript) – Led agile development using Trello and Git
- **Machine Learning** (Python) – Applied NumPy for regression and data analysis
- **Computer System Design** (C) – Worked on system-level programming and memory management