David Tran

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Education

University of California San Diego *Sept. 2021 - June 2025*

B.S. Computer Science, GPA: 3.96 *San Diego, CA*

- **Relevant Coursework**: Basic Data Structures and Object-Oriented Design, Software Tools and Techniques, Systems Programming, Discrete Mathematics, Linear Algebra, Statistical Methods

Skills

Languages	Java, JavaScript, Python, C
Tools/Frameworks	React, Node.js, Express.js, MongoDB, Next.js, Git, HTML, CSS

Experience

Center for Applied Internet Data Analysis (CAIDA) *San Diego, CA*

Undergraduate Web Programmer *Nov. 2021 - present*

- Assist in creating new frontend features for resource catalog web application to organize papers, recipes, and datasets.
- Generated structured data (for Google search optimization) for resource catalog pages with PHP. Used GraphQL to make structured queries to existing catalog API.
- Write technical recipes to provide documentation and example scripts for CAIDA software and APIs.

Triton Unmanned Aerial Systems (TUAS) *San Diego, CA*

Software Team Member *Sept. 2021 - present*

- Involved in software development for autonomous unmanned aerial system for AUVSI SUAS competition
- Refactored server-side API written in Go to handle requests involving image data from SUAS interoperability
- Help develop backend connection to computer vision and path planning systems. Add manual operator feature to ground control station React frontend for modifying and querying image data submitted during competition.

Projects

The Affair Magazine Website

THEAFFAIRMAG.GITHUB.IO

- Built static website using HTML, CSS, JS, and Jekyll framework for student-led 501(c)(3) journalism organization.
- Priority of delivering online content through well-organized blog, which houses select articles from magazine's most recent issues. Users are able to search and sort blog posts by category, title, and author to find relevant content.

Stock Prediction Game

GITHUB.COM/Stock-Prediction-Game/stock-game/

- Untraditional stock game web app written in Javascript, with MongoDB, Express, React, and Node
- Wrote 3+ API routes to handle authentication, posting players' predictions to the database, and calculating scores.
- Developed responsive frontend components in React to allow players to make stock predictions and check global leaderboard.