David Tran

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Education

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

B.S. Computer Science, GPA: 4.00 *San Diego, CA*

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

Skills

Languages Java, JavaScript, Python, Go

Tools/Frameworks React, Node.js, Express.js, MongoDB, Next.js, Git, HTML, CSS

Experience

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

REU Web Programmer *Nov. 2021 - present*

- Assist in creating new features for catalog web application to organize papers, recipes, datasets, and other media used by research group
- Wrote JS script to generate structured data (for Google search optimization) for each page in the catalog based on data from catalog API.
- Used GraphQL to make structured queries to existing catalog API

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 to handle requests involving data from SUAS interoperability server and get/post images during competition
- Help develop backend connection to computer vision and path planning systems

Projects

The Affair Magazine Website

THEAFFAIRMAG.GITHUB.IO *May - Aug. 2021*

- 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/

- Stock game web app written in Javascript, with MongoDB, Express, React, and Node as part of ACM at UCSD quarterly project team
- Wrote 3+ API routes to handle authentication, getting and posting players' predictions to the database, and calculating scores.
- Developed functional frontend components to display useful content from backend