Duy Vu

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EDUCATION

- **University of California, San Diego** — La Jolla, CA
  B.S. Mathematics - Computer Science; GPA: 3.73 — *September 2021 – June 2023*
  Relevant Coursework: Advanced Data Structures & OO Design, Software Engineering, Design and Analysis of Algorithms, Computer Organization and Systems Programming, Computer Graphics, Recommender System, Theory of Computability, Discrete Mathematics & Graph Theory, Statistical Methods

- **De Anza College** — Cupertino, CA
  Transfer General Education; GPA: 3.94 — *September 2019 – June 2021*
  Relevant Coursework: Data Structures, Calculus, Physics

EXPERIENCE

- **San Diego Supercomputer Center** — San Diego, Sept 27 - Dec 10, 2022
  Software Developer Intern
  - Collaborated in a team of 7 to develop the IOS mobile application that facilitates non-medical communication between neuroscience residents and attending physicians.
  - Utilized **Swift UI** to develop a user-friendly journals page featuring a built-in calendar view, enabling users to easily post and organize articles.
  - Utilized a **Go** web application and **Docker** to handle the client API and develop a dynamic user comment section within the journal platform.

  Software Developer Intern — San Diego, June 27 - Sept 2, 2022
  - Designed and developed a housing/roommate finder mobile application using **React Native**.
  - Built a robust **REST API** using **Node.js** and **MySQL**, allowing for independent scaling of the server and client.
  - Implemented efficient database design and querying strategies to ensure quick and efficient retrieval of housing/user information.
  - Implemented user authentication using **Firebase** Authentication, allowing users to securely sign up and log in to the application.
  - Utilized **Firebase** Cloud Firestore to design and develop a secure and efficient in-app messaging system for real-time and direct communication between users.

PROJECTS

- **Note Taking App** — Javascript, HTML/CSS
  - Personal note-taking app that enables users to share their notes while maintaining their own notes.
  - Co-developed main dashboard and note editor as a back-end developer.

- **Food Recommender System** — Python, TensorFlow
  - Built a recommender system that predicts the user's rating on a specific food recipe.
  - Developed the Logistic Regression and Bag of Words model using user's review text and Natural Language Processing.

- **Huffman Coding** — C++, Object-Oriented Design
  - Implemented a tool to compress and decompress files using Huffman Coding.
  - Used Binary Tree serialization to optimize compressed file's header size by 80%, leading to a 20% increase in overall run-time.

SKILLS

- **Languages**: C/C++, Java, Python, JavaScript, Swift, Go, SQL

- **Technologies**: Node.js, React, Django, .NET, Docker, Git, Firebase, Azure, TensorFlow