Huy Tran

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Education

University of California, Berkeley *GPA: 4.0*

Bachelor of Arts in Computer Science and Data Science *Expected May 2023*

Relevant Coursework: Structure and Interpretation of Computer Programs, Data Structures and Algorithms, Discrete Mathematics and Probability Theory, Engineering Software as a Service, Introduction to Database Systems, Foundations of Data Science

Technical Skills

Languages: Java, Python, JavaScript, SQL, MongoDB QL, HTML/CSS
Frameworks: React, Node.js, Express.js, Redux, Tailwind CSS
Developer Tools: Git, GitHub, Jira, Docker

Experience

Tech Consultant November 2021 – Present

UC Berkeley Student Tech Services *Berkeley, CA*

- Collaborate with Helpdesk Supervisors to provide technical support for all UC Berkeley students
- Troubleshoot and resolve various hardware and software issues (e.g. laptops, peripherals, viruses, etc.) around campus
- Provide in-person and on-call customer service to respond to incidents on ServiceNow

Academic Intern June 2021 – August 2021

UC Berkeley EECS Department *Berkeley, CA*

- Supported lab section of over 50 students for UC Berkeley's Data Structures and Algorithms course
- Completed over 30 student tickets throughout the session, providing conceptual and bug-fixing support for lab assignments
- Regularly consulted with student instructors to provide recommendations for improving the remote learning experience for students

Projects

Personal Website git.io/Jynzo

- Built a modern progressive website with React and Tailwind CSS that highlights my portfolio
- Improved User Experience on mobile devices by following Mobile-First Responsive Design principles

Pokémon Recommender git.io/JS9yt

- Created a recommender system in Python that outputs similar Pokémon based on a user's input
- Transformed and cleaned data from PokéAPI using the pandas and NumPy libraries
- Improved recommendations by applying various Machine Learning techniques (e.g. K-Nearest Neighbors, Cosine Similarity, SVD) with the sciKit-learn library
- Organized and analyzed results in a Jupyter Notebook

CalPlanner git.io/JWPcc

- Developed a full-stack web application that allows students to create and edit four-year academic plans
- Created a REST API with Express.js that stores user information and plans into a MongoDB Database
- Designed a User Interface with React and Tailwind CSS that automatically saves user changes to the database
- Integrated OAuth API to allow users to securely register and login with their Google accounts

Gitlet bit.ly/3q9UHl1

- Created a version control system with features from Git (e.g. commit, checkout, merge) using Java
- Improved navigation through commit history by using a directed acyclic graph and graph traversal algorithms
- Optimized the detection of file changes by integrating the SHA-1 cryptographic hash function
- Verified correctness of the program by writing integration tests during development (Test Driven Development)