Huy Tran

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Technical Skills

Languages: Java, C, Python, JavaScript, TypeScript, HTML/CSS, SQL, GraphQL
Frameworks/Libraries: React, Node.js, Express.js, Tailwind CSS, Spring, Project Reactor, FastAPI
Developer Tools: Git, GitHub, BitBucket, Jira, Confluence, Docker, Amazon Web Services, DynamoDB

Education

University of California, Berkeley — **Berkeley, CA**
Bachelor of Arts in Computer Science, Minor in Data Science (GPA: 4.00) — *Expected May 2024*

Relevant Courses: Data Structures, Computer Architecture, Discrete Math, Efficient Algorithms, Database Systems, Software Engineering, Principles and Techniques of Data Science, Probability for Data Science

Experience

Reader — **Berkeley, CA**
UC Berkeley EECS Department — *August 2022 – Present*

- Provide academic support for over 600 students in UC Berkeley's upper division Efficient Algorithms course
- Collaborate with teaching assistants to provide students with accurate grades for assignments and exams
- Guide students through classic algorithms and techniques by answering over 50 tickets during Office Hours
- Enhance clarity of coding assignments by debugging Jupyter Notebooks on algorithm implementations

Full Stack Software Engineer — **Mountain View, CA**
Atlassian — *May 2022 – August 2022*

- Leveraged reactive architecture to create a responsive and scalable notifications microservice for Confluence
- Decoupled email settings from Monolith by designing a new REST API with Spring and Project Reactor
- Reduced latency of queries by 20% by optimizing the DynamoDB schema for common access patterns
- Modernized the email settings page by creating React components that follow the Atlassian Design System
- Integrated the notifications service with the frontend page by developing a GraphQL API with Apollo Client
- Maintained 100% test coverage by consistently writing unit and integration tests for each new feature

Projects

Upsilon Pi Epsilon Internal API | *Python, FastAPI, MySQL* — Private Repository

- Pioneered creation of a new API that facilitates access of UPE member data for usage in internal projects
- Increased throughput of data requests by creating asynchronous REST endpoints with FastAPI
- Migrated spreadsheet data to a MariaDB database to allow for OLAP to analyze member demographics
- Streamlined development by creating a CI/CD pipeline using GitHub Actions

Upsilon Pi Epsilon Website | *React, Tailwind CSS, Gatsby.js* — Private Repository

- Overhauled the official website for UC Berkeley's CS Honor Society (UPE) with Gatsby.js and Tailwind CSS
- Improved UX for scheduling professional services by redesigning the scheduler to be more clear and intuitive
- Revamped "Big-Little" Family Tree by dynamically querying from internal API and improving the UI with D3.js
- Enchanced mobile-user experience by redesigning pages to reflect responsive web design principles

Gitlet | *Java* — t.ly/uyu_

- Created a lightweight version control system with standard Git features (e.g. commit, checkout, merge)
- Improved traversal through commit objects by structuring the commit history as a directed acyclic graph
- Optimized detection of repository changes by integrating the SHA-1 hash function to encode file contents
- Validated correctness of the project by performing Test-Driven Development with unit tests

Activities

Officer of Software Development — **Berkeley, CA**
Upsilon Pi Epsilon, Nu Chapter — *August 2022 – Present*

- Lead committee of over 15 members through the development of internal software projects
- Consult with executive team biweekly to decide on changes for current projects and conceptualize new ideas
- Introduce beginner developers to common software engineering practices (e.g. Agile, TDD, Code Reviews)