

ANDREW CHEN

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EDUCATION

University of California, Berkeley

Expected May 2023

Bachelor's in Computer Science, Junior, GPA: 3.9/4.0

Selected courses: Operating Systems, Databases, Computer Architecture, Advanced Algorithms, and Discrete Math

SKILLS

Languages

Java, Python, C/C++, JavaScript, TypeScript, Kotlin, SQL, HTML, CSS

Tools/Frameworks

React, Vue.js, Git, Docker, Redux, Ruby on Rails

EXPERIENCE

Apple

May 2021 - Aug. 2021

Software Engineering Intern

Cupertino, CA

- Developed APIs and UI with Java, React, Kotlin Vert.x, and AWS DynamoDB for Apple Health
- Designed, created, and wrote integration tests for a scalable and extensible microservice which collects impressions to generate valuable training data for ML models

NVIDIA

Jan. 2021 - May 2021

Software Engineering Intern

Santa Clara, CA

- Improved search speeds and loading times by 4.6secs by prefetching, caching, and paginating API calls, lazy loading components, and dynamically changing image resolutions
- Performed code reviews in addition to front end and API development to build an ads management system
- Created testable and reusable components with TypeScript, React, Redux, Redux-Saga, and Jest

Wind River Systems

June 2020 - Dec. 2020

Software Engineering Intern

Alameda, CA

- Reduced loading times by 2.2secs (208% performance increase) on the main page according to Lighthouse by refactoring to use Vuex caching, modularizing the codebase, and using lazy loaded routes
- Optimized and implemented features for a project sharing platform using Vue.js, Vuex, Quasar, and Firebase
- Emphasized maintainability by developing error handling tools and writing documentation

D-Lab

Sept. 2020 - Dec. 2020

Research Apprentice

Berkeley, CA

- Developed a web-scraper for computational research using Python, Scrapy, and BeautifulSoup
- Streamlined team's development by dividing the project into a multi-container Docker app
- Implemented text processing and a MongoDB pipeline to efficiently parse 100s of websites

UC Berkeley EECS Department

Sept. 2019 - May 2020

Academic Intern

Berkeley, CA

- Mentored 20 students by explaining topics such as Java, Python, regex, graph algorithms, and debugging

PROJECTS

Covid Stories – Vue.js, TypeScript, Python, Flask, Nuxt.js, Vuex

- Architected a forum to bring awareness to victims of the pandemic and share their personal experiences

RelationalDb – Java, JUnit

- Implemented multiple granularity locking for concurrency control, B+ tree indexing, and join and query optimization
- Built a database system over several months to facilitate a more intimate understanding of databases

Social Network – Ruby on Rails, HTML, CSS, Bootstrap

- Developed models, views, controllers, and CRUD operations for posts, messages, and comments
- Collaboratively created a social media website with partners using Git and GitHub

Git – Java, JUnit

- Built a Git clone by applying serialization, persistence, and file I/O concepts
- Implemented Git features including git-merge with automatic conflict resolution, git-branch, and git-checkout