

ANDREW CHEN

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SKILLS

- Languages: Java, Python, Ruby, JavaScript, SQL, HTML/CSS, C++, and Scheme
- Tools/Frameworks: Ruby on Rails, Bootstrap, and Git

EDUCATION

University of California – Berkeley

Class of 2022

Bachelor's in Computer Science, GPA: 4.0

Berkeley, California

- Coursework: Data Structures & Algorithms, Structure and Interpretation of Computer Programs, and Foundations of Data Science
- Current: Database Systems, Discrete Mathematics & Probability Theory, and Linear Algebra & Differential Equations

EXPERIENCE

Research Apprentice

Feb. 2020 – Present

Goodly Labs

Berkeley, California

- Use JavaScript, HTML, and CSS to develop a chrome extension that collects and visualizes metrics
- Work on Public Editor, a technology to assess the credibility of news and quality of information

Software Developer

Jan. 2020 – Present

UC Berkeley EECS Department

Berkeley, California

- Work with team to develop internal tools and course websites using Python, JavaScript, HTML, and CSS
- Contribute to large projects including a grading tool used by 1000s of students and teachers

Academic Intern

Sept. 2019 – Present

UC Berkeley EECS Department

Berkeley, California

- Teach Data Structures and Algorithms in Java in 10 to 20 student sized labs
- Communicate topics such as regex, graph algorithms, and dynamic programming
- Previously helped teach Python, SQL, and Scheme

PROJECTS

Sketch | *JavaScript and HTML/CSS*

Jan. 2020

- Created a clean and user-friendly website with functionality similar to Microsoft Paint
- Enabled painting and shading on a resizable canvas and saving

Git | *Java*

Dec. 2019

- Reinforced version-control skills by building a simplified version of Git
- Implemented Git features including conflict resolution, *merge*, *checkout*, and *branch*
- Organized development by writing a detailed technical specification and systematic automatic tests
- Strengthened concepts on serialization, Git internals, file I/O, and hashing on an intimate level

Social Network | *Ruby on Rails, SQLite, and HTML/CSS*

Dec. 2019

- Collaboratively created a social media website with partners using Git and Github
- Implemented models, views, controllers, and CRUD operations for posts, messages, and comments
- Designed front-end with HTML/CSS and Bootstrap using appropriate color pallets to improve the appearance and visibility

Cipher Machine | *Java*

Oct. 2019

- Built a reciprocal cipher with more than $1.5e+20$ possible configurations that can encode and decode text
- Emphasized test-driven development with JUnit, clean style, documentation, and error handling