ANDREW CHEN

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SKILLS

- Java, Python, Ruby on Rails, JavaScript, HTML/CSS, SQL, Git, and Scheme

PROJECTS

Git | *Java*
- 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*
- Collaboratively created a social media website with partners using Git and Github
- Implemented CRUD operations for posts, messages, and comments
- Developed front-end with HTML/CSS and Bootstrap

Sketch | *JavaScript and HTML/CSS*
- Created a clean and user-friendly website with basic functionality similar to Microsoft Paint
- Enabled painting and shading on a resizable canvas and saving

Cipher Machine | *Java*
- 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

Type Racer | *Python*
- Wrote a program that can autocorrect typos as well as compute both typing speed and accuracy

EXPERIENCE

Academic Intern   Sept. 2019 – Present
UC Berkeley EECS Department   *Berkeley, California*
- Part of the teaching staff of Data Structures and Algorithms
- Teach Java in 10 to 20 student sized labs
- Communicate topics such as regex, graph algorithms, and dynamic programming
- Previously helped teach Structure and Interpretation of Computer Programs

Python Teacher   Aug. 2018 – Sept. 2018
Union City Library   *Union City, California*
- Developed and conducted a pro-bono Python training course for underrepresented minorities
- Students left more confident and more interested in computer science according to feedback from parents

EDUCATION

University of California - Berkeley   Expected Graduation May 2022
Bachelor's in Computer Science, GPA: 4.0   *Berkeley, California*
- The Berkeley Undergraduate Scholarship
- Relevant 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