A N D R E W C H E N

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E D U C A T I O N

University of California - Berkeley — Expected Graduation May 2022

Bachelor's in Computer Science, GPA: 4.0 — *Berkeley, California*

- **Skills**: Java, Python, Ruby on Rails, JavaScript, HTML/CSS, Git, SQL, C++, and Scheme
- Relevant coursework: Data Structures & Algorithms, Structure and Interpretation of Computer Programs, and Foundations of Data Science
- Upcoming: Database Systems, Discrete Mathematics & Probability Theory, and Linear Algebra & Differential Equations

P R O J E C T S

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*

- Collaborated with partners using Git and GitHub to create a social media website
- 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
- Users can paint on a resizable canvas in multiple colors and save their drawings

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

E X P E R I E N C E

UC Berkeley EECS Department — Sept. 2019 – Present

Academic Intern — *Berkeley, California*

- Part of the teaching staff of Structure and Interpretation of Computer Programs
- Teach Python, SQL, and Scheme in 10 to 20 student sized labs
- Communicate technical topics including programming paradigms, tree recursion, and building interpreters

Union City Library — Aug. 2018 – Sept. 2018

Python Teacher — *Union City, California*

- Developed and conducted a pro-bono Python training course for underrepresented minorities
- Parents gave feedback that students left more confident and more interested in computer science

A W A R D S

- ECOO Programming Contest: Team placed 2nd in the eastern provincial region and qualified for the final provincial round
- Carman E. Pollock Memorial Mathematics Award
- The Berkeley Undergraduate Scholarship