Yu Xi Gui

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Education

University of California, Berkeley Expected: Spring 2023
Bachelor of Arts in Computer Science, Data Science *GPA: 3.8*

Experience

Hulu May 2021 – Present
Software Engineer Intern *Santa Monica, CA*

- Building a full-stack user management service platform from scratch using Java with Spring and Swagger framework to organize and group Hulu users
- Implementing RESTful web service APIs and writing object-oriented classes to include features that efficiently groups users
- Connecting code with AWS Aurora database using MySQL and Terraform

UC Berkeley EECS Department January 2021 – May 2021
Data Structures and Computer Architecture Academic Intern *Berkeley, CA*

- Helped answering questions and teaching topics such as higher order functions, object-oriented programming principles, C, RISC-V assembly, high-level CPU design, parallelism in classes with 1000+ students

Convergent at Berkeley August 2019 - December 2019
Lead Designer *Berkeley, CA*

- Designed a pitch deck that includes statistics, monetization plan, and competitive landscape to investors
- Researched and assessed relevant and feasible API libraries that align with app design
- Engaged in the design and marketing of a mobile app "RendezNew" that helps students to find study buddies in Berkeley libraries and promotes local businesses that offer incentives for tutors

Projects

Graditude | *Python, JavaScript, React, HTML/CSS* August 2020 - Present

- Collected 30+ BSD graduates' responses and used Python to extract relevant data
- Develop a website using JavaScript and HTML/CSS that collects college application data from Bellevue School District (BSD) graduates to facilitate college applications for BSD students who lack competitive resources

Mini Git | *Java, Git* May 2020

- Implemented a Java version-control system with tree and hash table data structures that closely mimicked the real Git
- Included basic commands like commit, branch, merge, and remote
- Generated various test cases to ensure functionality of the program

Enigma | *Java, Git* March 2020

- Programmed using Java and object-oriented programming to simulate encryption technology used in World War II with classes like rotors and ratchets
- Applied understanding of polymorphism and inheritance to create digital analogs and allowed optimization on the default machine setup

Technical Skills

Languages: Java, Python, C, JavaScript, SQL, HTML/CSS, Scala, React, RISC-V Assembly, Scheme, R
Frameworks: Spring, Swagger, Flask
Developer Tools: Git, Intellij, MySQL, VS Code, Eclipse, Jupyter Notebook, Maven, AWS, Google Cloud, Hive, Google Colab Notebook
Libraries: Pandas, NumPy, Matplotlib, Sklearn, Seaborn, TensorFlow
Relevant Coursework: Algorithms, Data Structures, Databases, Operation Systems, Machine Learning, Machine Structures, Computer Programs, Information Devices, Discrete Mathematics and Probability Theory, Data Science