Lisa Sam Wang

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Education

University of California, Berkeley Aug. 2018 – May 2022
BA Computer Science, BA Molecular & Cell Biology with Honors *GPA: 3.57*

Projects

NutriPlan | *Flutter, Python* February 2022 – June 2022
- Employs Machine Learning Algorithms to generate balanced meal plans for disease management

An End-to-End Encrypted File Sharing System | *Go* March 2022 – April 2022
- Encrypts every communication within the system and guarantees its authenticity either with HMAC or DS

DoYourOwnResearch | *Jekyll* October 2021 – Present
- Ongoing project to fill-in-the-blank on scientific concepts for the layman

NumC | *C, Python, SIMD, OpenMP* November 2020 – December 2020
- Optimized matrix operation functions to reach speedups of 100 for multiply, 1220 for power, 4 for simple operations, and 100 for comprehensive operations using Intel Intrinsics and OpenMP

Gitlet | *Java* November 2019 – December 2019
- Custom-made version control similar to Git

Experience

Software Engineering Intern - Cloud & Productivity Engineering June 2021 – August 2021
Capital One *Remote*
- Worked on creating parts of the User Interface, as well as Quality Assurance and Deployment for the company division web application
- Took initiative to drive communication with the team through sharing notes and feedback taken during meetings
- Presented the work to organization leaders at the end of the internship

Teaching Assistant for Programming and 3D Design Course June 2020 – June 2021
WindTree Education *Los Angeles, CA*
- Led Zoom discussions and helped students brainstorm ideas for assignments

Undergraduate Researcher September 2021 - May 2022
University of California, Berkeley *Berkeley, CA*
- Previous research experience: data collection and analysis at UCSF lab from 09/2019-05/2020
- Built an empirical Bayes method in C++ for inferring phylogeny, using maximum likelihood for estimating branch lengths on a tree, but using MCMC to explore the space of tree topologies for Honors Thesis

Technical Skills

Languages: Java (5k+ Lines of Code), Python (2k+ LOC), C/C++ (1k+ LOC), SQL (700+ LOC), Swift (300+ LOC), TypeScript (200+ LOC), HTML (200+ LOC), CSS (100+ LOC), Dart (200+ LOC), Go (1k+ LOC)
Non-Programming Languages: English, Spanish, Mandarin, Portuguese
Frameworks and Tools: JUnit, WordPress, Unix, Angular, Flutter, Jekyll, Agile
Developer Tools: Git, Atom, PyCharm, IntelliJ, CLion, Xcode, Visual Studio Code, Chrome Developer Tools
Libraries: pandas, NumPy, Matplotlib, seaborn, PyTorch, scikit-learn
Relevant Coursework: Algorithms, Data Structures, Data Science, Machine Learning, Artificial Intelligence, Machine Structures, Computer Security, Computer Programs, Product Management

Organizations/Awards

Microsoft Hack for Mental Health Winner
Jacobs Institute Innovation Catalysts Spark Grant
UC Berkeley CS Scholars Program
Rewriting The Code
Girls Who Code
TAPIA 2021
Grace Hopper Celebration of Women in Computing