

HAOHAN LIN

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EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

Bachelor of Arts, Computer Science

HONG KONG UNIVERSITY

Exchange

Berkeley, CA

Aug 2016 – May 2020

Hong Kong, CN

Jan 2019 – May 2019

Relevant Coursework: Efficient Algorithms and Intractable Problems, Database Systems, Data Structures, Artificial Intelligence, User Interface, Internet Architecture, Machine Structure, Discrete Mathematics and Probability Theory, Linear Algebra and Differential Equations, Computer Security, Computer Vision

PROJECTS

BlindDate (Java)

Front-End Developer

Sep 2018 – Dec 2018

- An online dating application for users with disabilities
- Brainstormed & Implemented user friendly functionalities: easy on-boarding, text-based UI, strong color contrast.
- Turned Figma-based design wireframe to executable application in Android Studio

Moocbase (Java)

Individual Developer

Sep 2019 – Dec 2019

- A SQL-supporting database
- Implemented B+ tree indices, efficient join algorithms, and query optimization to allow quick access.
- Utilized multigranularity locking to allow concurrency in database
- Added database recovery mechanism

ImageColorizer (Python)

Individual Developer

Jan 2020 – Feb 2020

- Colorized an image with its RGB glass plate negatives
- Implemented sliding window SSD algorithm to align pixels
- Utilized image pyramid to improve algorithm efficiency

FaceMorpher (Python)

Individual Developer

Feb 2019 – March 2019

- Produced animated gif of my face morphing to other's
- Generated a mean face of a population, and morphed my face into it
- Implemented affine transformation matrix for shape morphing

SecureDropbox (Golang)

Individual Developer

Feb 2019 – March 2019

- A file-sharing system allows secured upload, share, and efficient append
- User info and uploaded files were encrypted with symmetric key algorithm, and the integrity is ensured with HMAC
- Sharing tunnel is secured with public key encryption, and digital signature
- Efficient file append is implemented in a version-control manner

SKILLS, ACTIVITIES & INTERESTS

Languages: Proficient in English, Chinese, and basic Japanese, Latin
Technical Skills: Python, Java, Golang, Git, Unix Shell, React Native

| **Skills:** Listening, Organization
| **Interests:** Guitar, Animal Crossing, Splatoon 2