Kevin H. Ouyang

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EDUCATION

Brown University ● **Sc.B Computer Science**   Aug 2016—May 2020
GPA 3.7 // 4.0

Highlighted Coursework: Computer Systems, Distributed Systems, Human-Computer Interaction (Grad level), Mobile Software Development, Object-Oriented Programming, Data Structures and Algorithms, Deep Learning, Machine Learning, Statistical Inference, Linear Algebra

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SKILLS

Backend, Mobile (Android), UIUX, Python, Haskell, Go, Javascript, C, Java, Version control (Git, Mercurial)

INDUSTRY EXPERIENCE

BlockApps
Blockchain Development Intern, STRATO   June 2020—Present
- Developed API that generates x.509 certificates, allowing BlockApps to use pay-per-node revenue model
- Added database schema and server for backend management of client account information
- Work in Haskell, PostgreSQL, Docker

Facebook
Software Engineering Intern, Machine Learning Infrastructure   June 2019—Aug 2019
- Improved developer productivity by introducing a framework for automated single-box testing to catch interaction errors that arise between distributed components of Facebook's Machine Learning ecosystem

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ACADEMIC EXPERIENCE

Human-Computer Interaction Research Group at Brown
Research Assistant   Jan 2019—June 2020
- Investigator on the Self-E project, growing it from ideation phase to a fully-implemented user system
- Lead developer for Android app; delivered prototype that was used to conduct 2-month user trial
- Conducted literature reviews and generated directions for novel research
- Co-author on paper to be submitted September 2020

Brown University Computer Science
Teaching Assistant, Data Structures and Algorithms; Object-Oriented Programming   Aug 2017—May 2018
- Lead weekly section, hosted office hours, graded homework for class of 400+ students
- Topics covered: OOP, interactive graphics, recursion, graphs, decision trees, DP, runtime analysis

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PROJECTS

Self-E: To learn more and download the app, visit **selfe.cs.brown.edu**

PuddleStore: Fault-tolerant distributed file system capable of file system operations. Uses Tapestry for distributed object location and routing, Apache Zookeeper as membership server, and Raft as a consensus protocol. Built in Go.

eMochi, *2nd place Winner at MIT Hacking Arts 2017*: Contributed a serverless backend with AWS Lambda to serve chatbot responses from collected user data; wrote and presented the pitch to the judge panel.