

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, Mobile Software Development, Data Structures and Algorithms, Deep Learning, Machine Learning, Human-Computer Interaction, Statistical Inference, Linear Algebra

SKILLS

Backend Development, Python, Haskell, Go, Javascript, C, Java, Git, Mobile Development (Android), Blockchain

EXPERIENCE

BlockApps

Blockchain Development Intern, STRATO-Core Platform

June 2020—Present

- Contributed to the Identity project, using X.509 certificates to enable human-readable P2P node signatures
- Work in Haskell, Javascript, and Docker

Human-Computer Interaction Research Group at Brown

Research Assistant

Jan 2019—June 2020

- Investigator on the Self-E project; used Design Thinking process to take Self-E from ideation phase to a working, fully-implemented user system
- Lead developer for the Android mobile app that guides users through running custom self-experiments
- Co-author on paper to be submitted September 2020

Facebook

Software Engineering Intern, Machine Learning Infrastructure

June 2019—Aug 2019

- Built a localized version of distributed scheduler (Chronos) that uses Thrift RPC calls to schedule and execute jobs in DAG order with specifiable retry policy
- Designed and implemented a framework for single-box testing to catch interaction errors that arise between distributed components of Facebook's ML ecosystem

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, JavaFX, 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

GNN: Built a message-passing graph-based Neural Network that detects whether particular molecules are active against cancer with a 72% accuracy. Implemented using PyTorch.

PuddleStore: Developed fault-tolerant distributed file system capable of basic file system operations. Uses Tapestry as DOLR, Apache Zookeeper as membership server, and Raft to ensure strongly consistent updates. Built in Go.

eMochi, 2nd place Winner at MIT Hacking Arts 2017: Built a serverless backend with AWS and lambda functions to serve chatbot responses based on collected user data; wrote and presented the pitch to the judge panel.