

Keeley D. Erhardt

SOFTWARE ENGINEER · RESEARCH ASSISTANT · DOCTORAL STUDENT

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Education

Massachusetts Institute of Technology

PH.D. IN MEDIA ARTS AND SCIENCES | MEDIA LAB | HUMAN DYNAMICS GROUP | ADVISOR: ALEX 'SANDY' PENTLAND

Cambridge, MA

Sep. 2019 - Present

Massachusetts Institute of Technology

M.ENG. IN COMPUTER SCIENCE | CONCENTRATION IN COMPUTER SYSTEMS

Cambridge, MA

Sep. 2016 - Sep. 2017

Massachusetts Institute of Technology

B.S. IN COMPUTER SCIENCE | MINOR IN APPLIED INTERNATIONAL STUDIES

Cambridge, MA

Sep. 2013 - Jun. 2017

Technical Skills

Programming (proficient): Java, Go, Python, (familiar): Node.js, JavaScript, HTML/CSS, SQL, Solidity, \LaTeX

Other (proficient): Git, Unix, Microservices (familiar): React, Corda, Ethereum, Distributed Systems, Protobuf, gRPC, Postgres

Work Experience

Improbable

SOFTWARE ENGINEER

London, UK

Sep. 2017 - Jul. 2019

- Worked on the Runtime team – responsible for building a system that leverages distributed computation to exceed the limitations of a single game engine or server to create massive scale games and simulations. *Selected projects:*
 - Designed and implemented an algorithm for snapshotting entity-components in distributed games and simulations in **Java**.
 - Lead technical work to measure and improve the performance of our product offerings and provide pricing recommendations.

Circle Internet Financial

SOFTWARE ENGINEERING INTERN

Boston, MA

Feb. 2016 - May 2017

- Designed an auth service for microservices, partners, and end users in **Java** with **Dropwizard** and the **Jackson + Jersey + Jetty** stack.

Facebook (Build Infrastructure Team)

SOFTWARE ENGINEERING INTERN

London, UK

May 2016 - Aug. 2016

- Developed an open-source error processing pipeline for Buck build errors in **Java** and built a UI with **React** to visualize the results.

Apple (Applied Machine Learning Group)

SOFTWARE ENGINEERING INTERN

Sunnyvale, CA

Jan. 2016 - Feb. 2016

- Implemented an **NLP** tool to process raw Twitter data using LDA topic modelling in **Python** and an interactive UI in **JavaScript**.

Google (Chrome Infrastructure Team)

SOFTWARE ENGINEERING INTERN

Mountain View, CA

May 2015 - Aug. 2015

- Built an open-source pipeline to flag and rank suspicious commits to Chromium in **Python** on top of **Google App Engine**.

Research

MIT Media Lab (Human Dynamics Group)

RESEARCH ASSISTANT

Cambridge, MA

Sep. 2017 - Jul. 2019

- Designed a smart contract program for sensitive data exchange on the **Ethereum** blockchain using **Node.js** and **Solidity**.

MIT Center for Collective Intelligence

RESEARCH ASSISTANT

Cambridge, MA

Feb. 2014 - Sep. 2016

- Built tooling to detect mentions of novel technologies and predict their disruptive potential using **web and social media mining**.

Universitat Pompeu Fabra Complex Systems Lab

RESEARCH INTERN

Barcelona, Spain

Jun. 2014 - Aug. 2014

- Developed **Python** models to predict emerging technologies and areas of future growth from networks of U.S. patent records.

Honors

2017 Ripple Fellowship, 2017 Consensus Scholar, 2017 30 Under 30 Scholar, 2016 Oracle Elite Engineer Scholarship, 2016-17 Burchard Scholar, 2014 & 2013 NFHCA National Academic Squad, 2014 & 2013 NEWMAC Academic All-Conference