Derek Zheng

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Education

Harvard University   Cambridge, MA
A.B. in Computer Science, Economics   May 2023
Relevant Coursework: Systems Programming, Data Structures & Algorithms, Big Data
Activities: Harvard Effective Altruism, Harvard Club Football

Tsinghua University   Beijing, China
Study abroad research/coursework in Sustainability and Global Economic Policy.   July – August 2019

Skills & Interests

Technical: C++, Java, Python, HTML, CSS, JavaScript, Stata, React.js, SQL, R
Interests: Full Stack Systems Dev., Product Management, Sustainability, Tech for social good.

Experience

Boston Housing Authority   Boston, MA
Software Engineering Intern   March 2020 - Present
- Develop online housing search tool to support the housing search process for low-income Boston families and facilitate access to high-quality neighborhoods, improving families outcomes.
- Improve website using React.js, Google APIs, and other technologies to augment website functionality by better integrating 3 new API services, improving search functionality, implementing transit route estimates and expanding map features to integrate more detailed community and housing information.

Pakira, Inc.   Cambridge, MA
Founding Software Engineer   November 2019 - Present
- Design and implement online global physical commodities trading platform using HTML, CSS and JavaScript. Lead development of front-end interface, developing online chat, platform directory and forum features.
- Lead construction of seed dataset utilizing R and Python to analyze 200,000 companies.

Monta Vista Official App   Cupertino, CA
Founder   June 2018 – August 2019
- Led design and development team of 4 iOS app developers to design official school app that facilitated greater community engagement in local high school community. Implemented school schedule and clock synchronization to improve information publication flow.
- Utilized knowledge in C++ to create an app with over 600 users. Coordinated development of iOS app for an additional high school of over 1800 students.

Leadership & Activities

Harvard Consulting on Business and the Environment   Cambridge, MA
Consulting Analyst   February 2020 – present
- Consult for Fortune 500 companies and startups in the life sciences, technology and sustainability sector. Casework: Aerospace (startup acquisition and sustainability).
- Compile reports, analyze data, and interview experts and company executives to deliver actionable business strategy recommendations and analysis directly to clients.

MakeHarvard   Cambridge, MA
Finance Executive Board   September 2019 – Present
- Coordinated and organized annual engineering make-a-thon consisting of 300+ college students from all over the world. Engaged with sponsors, reviewed applications and selected make-a-thon competitors.