

JEREMY HSU

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EDUCATION

Harvard College | B.A. in Computer Science

Expected May '23

Fall Projected Coursework Complexity Theory · Artificial Intelligence · Computer Networks · Computer Architecture

Relevant Coursework Functional Programming · Design of Useful Interactive Systems · Linear Algebra and Differential Equations · Introduction to Computer Science · Multivariable Calculus

Clubs & Organizations Harvard Computer Society · Datamatch

TECHNICAL SKILLS

Programming Languages C · C++ · Java · OCaml · Swift · JavaScript · Python · SQL

Frameworks & Libraries ReactJS · Node.js · Redux · TensorFlow · UIKit

Technologies Google Cloud · Heroku · Firebase · NumPy · Pandas · HTML/CSS · Figma · Kibana

PROJECTS

MiniML

Apr '20 – May '20

OCaml

MiniML is a metacircular interpreter for a small, Turing-complete subset of the OCaml and ML programming language. Users are prompted with a graphical REPL and MiniML executes commands based on three distinct semantic models: the substitution model, the dynamically scoped environment model, and the lexically scoped environment model.

FoodSpace

Dec '19 – Jan '20

JavaScript, Node.js, ReactJS, React-Redux, Yelp-Fusion

FoodSpace is a full-stack web application streamlining the process of determining meal logistics. Users are able to search for restaurants based on specified criteria and can select a time slot in their calendar based on a chosen restaurant's hours of operation on a given day. The server side is built with Node.js and Express while the client side is built with ReactJS and React-Redux. Business searching is implemented with the Yelp Fusion API.

RoommateHub

Nov '19 – Dec '19

Swift, UIKit, MessageUI, Firebase

RoommateHub is an iOS application which streamlines shared living for roommates. Features include shared task lists, roommate profiles, integrated text messaging, and an anonymized message forum. The application is built with Swift following the UIKit and MessageUI frameworks. User authentication and cloud storage is integrated with the Firebase Authentication and Realtime Database tools.

Personal Site

Aug '19 – Dec '19

JavaScript, ReactJS, Firebase

Portfolio site that showcases my current college, personal and professional information.

WORK EXPERIENCE

Cisco Systems | Software Engineer Intern – **Team Collaboration Group**

San Jose, CA · May '20 – Present

- Interning on the Media Processing and Call Control Team.
- Building Elasticsearch dashboards to visualize realtime metrics and improve performance analysis.
- Working to expand a Python-based tool that evaluates call quality and locates bugs to a wider user base within the company.

Datamatch | Software Developer – **Algorithm Team**

Cambridge, MA · Oct '19 – Feb '20

Datamatch is a software service which connects and sponsors meals for students based on their personality compatibilities.

- Developed a stable matching algorithm for small schools.
- Handled stable cross-matching between Harvard and MIT (for users who specify different school preferences).
- February launch saw over 39,000 users across 30 colleges and universities throughout North America including MIT, Yale, McGill, and UC Berkeley.

ACTIVITIES

Harvard Expressions · USTA National-Level Junior Tennis Player