

# Ethan Houston

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## EDUCATION

### THE UNIVERSITY OF TEXAS AT AUSTIN

BS IN COMPUTER SCIENCE  
May 2022 | Austin, TX  
GPA: 3.93/4.0

### HENRY M. GUNN HIGH SCHOOL

May 2018 | Palo Alto, CA

### THE INTERNATIONAL SCHOOL OF BEIJING

June 2017 | Beijing, CN

## COURSEWORK

Computer Org. & Architecture  
Probability and Statistics  
Statistics in Market Analysis  
Data Structures  
Discrete Mathematics  
Multivariable Calculus  
Longhorn Startup  
Stanford ICME workshops:  
Statistics  
Deep Learning  
Natural Language Processing

## LANGUAGES

English  
Mandarin Chinese  
Norwegian Bokmål

## EXPERIENCE

### WATSHOUT | SOFTWARE ENGINEERING MANAGER, CO-FOUNDER

March 2018 - Present | San Francisco, CA

- Developed minimum viable product for **Android** and **web** apps before recruiting and supervising a team of nine software developers to increase feature set
- Created and managed **Google Cloud** infrastructure running a **Python (Flask)** back-end, closely integrated with **Firebase**
- Forged connections with Google's **Cloud** and **Map** teams, had weekly meetings to ensure cloud strategy was on track
- Facilitated communication between developers and designers in order to quickly and efficiently implement new designs

## TECHNICAL SKILLS

- Strong understanding of **Java** (emphasis on **Android**)
- Experienced in managing cloud infrastructure (primarily **Google Cloud Platform**), utilizing **Google APIs** (particularly Maps), and using **Firebase**
- Extensive knowledge of **Python** with particular regard to **RESTful APIs** and **Machine Learning**
- Exposure to **Scheme/Lisp** through coursework
- cursory knowledge of **front-end** web development

## PROJECTS

### Recorda

- Preference storage and recommendation engine using **Neo4j** graph database
- Front-end in **React Native**, back-end in **Flask**
- Utilized GCP **App Engine** and **Compute Engine**
- Used Google **Places API** and location services to generate real-time place recommendations

### Static Site Generator

- Generate web pages from Markdown using Python
- Blog post categorization using Google Natural Language Processing APIs
- Used to create personal site ethanhouston.com

## RESEARCH

### STANFORD BIOENGINEERING | MACHINE LEARNING ASSISTANT

January 2018 - March 2018 | Stanford, CA

- Used game film, mouthguard-sensor data, and **TensorFlow** in **Python** to analyze traumatic head impacts in Stanford football players
- Created visualizations of head-impact location based on player position