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.io

- Preference storage and recommendation engine using **Neo4j** graph database
- Utilizing GCP **App Engine** and **Compute Engine** to host
- Used Google **Places API** and location services to generate real-time place recommendations
- Back-end written in **Flask**

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