

# Ethan Houston

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## EDUCATION

### THE UNIVERSITY OF TEXAS AT AUSTIN

#### B.S. COMPUTER SCIENCE

May 2022 | Austin, TX

GPA: 3.93/4.0

#### Information Systems

**Security Society** - President

**Lambda Alpha Nu** - Officer

## COURSES

Programming Languages

Intro to Security

Operating Systems

Computer Architecture

Data Structures

Probability and Statistics

Linear Algebra

Multivariable Calculus

Discrete Mathematics

Databases (TA)

## SKILLS

### LANGUAGES

Python • Swift • Haskell • Lisp

Javascript • Java • C • SQL

HTML • CSS

### FRAMEWORKS

Django • Flask • React • Angular

Node.js • iOS

### TOOLS

Docker • TensorFlow • Keras • GCP

Firebase • Node • Jupyter • Neo4j

PostgreSQL • BigQuery • Meilisearch

Matplotlib

## EXPERIENCE

### CHARTMETRIC | SOFTWARE ENGINEERING INTERN

May 2019 - August 2019 | Sunnyvale, CA

- Restructured **Python** web scraping infrastructure resulting in 75% overall speed increase in hourly scraping from Spotify, Apple Music, etc.
- Deployed cross-genre music recommendation **ML** model to production accessible through a customer-facing **React** app
- Implemented **continuous integration** to large parts of core product in addition to creating a testing suite from scratch using **PyTest**
- Added ability for customer teams to create and share annotated, interactive visualizations across the product using **Angular.js** and **Node.js**

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

March 2018 - October 2019 | 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
- Raised \$50k in pre-seed funding
- Forged connections with Google's **Cloud** and **Map** teams, had weekly meetings to ensure cloud strategy was on track

### IODINE SOFTWARE | DATA SCIENCE INTERN

April 2019 - Present | Austin, TX

- Aided in training of neural network to assist with **natural language processing** of medical records

## PROJECTS

### RECORDA | RECORD YOUR PREFERENCES, PRIVATELY

December 2018 - Present | Django, iOS, Docker

- Mobile-first iOS app to privately store personal preferences

### GPX-CSV-CONVERTER | PYTHON PACKAGE

June 2018 | Python

- Convert GPX files from sports apps into CSV format for data analysis
- 10,000+ downloads on PyPi
- `pip install gpx-csv-converter`

## RESEARCH

### STANFORD CAMARILLO LAB | MACHINE LEARNING ASSISTANT

January 2018 - March 2018 | Stanford, CA

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