

Ethan Houston

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EDUCATION

THE UNIVERSITY OF TEXAS AT AUSTIN

B.S. IN COMPUTER SCIENCE
May 2022 | Austin, TX
Cum. GPA: 3.83 / 4.0

ORGANIZATIONS

Information and Systems Security Society - President
Lambda Alpha Nu - President

COURSEWORK

Virtualization (F2020)
Logic in CS and AI (F2020)
Independent Research (F2020)
Programming Languages
Intro to Security
Operating Systems
Computer Architecture
Data Structures
Probability and Statistics
Linear Algebra
Multivariable Calculus
Discrete Mathematics
Databases (TA)
Stanford CS106A (Section Leader)

SKILLS

LANGUAGES

Python • Swift • Haskell • Lisp
Javascript • Java • C • \LaTeX
SQL • HTML • CSS

FRAMEWORKS

Flask • Django • React
Angular • Node.js • iOS
Android

TOOLS

Docker • PyTorch • GCP
Firebase • Node • Jupyter
GraphQL • AWS • Git

AWARDS

SCHOLARSHIPS

Schlumberger Founders
Parker Skiba Memorial

EXPERIENCE

LUMOS IDENTITY | SOFTWARE ENGINEERING INTERN

June 2020 – Present | Stanford, CA

- First engineering hire. Played pivotal role in transforming Lumos from a hackathon project to a real product. Worked on all aspects of the product
- Owned the **integrations** effort allowing customers to connect to external services such as GSuite and Okta
- Developed end-to-end data pipeline to obtain metadata on 200,000 unique applications

CHARTMETRIC | SOFTWARE ENGINEERING INTERN

May 2019 – Aug 2019 | Sunnyvale, CA

- Restructured Python data ingestion pipeline resulting in **75%** overall speed increase in hourly data retrieval from Spotify, Apple Music, etc.
- Deployed cross-genre music recommendation ML model
- Implemented CI/CD pipeline using **CircleCI**
- 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

Mar 2018 – Oct 2019 | San Francisco, CA

- Developed minimum viable product for Android and web apps before **recruiting and managing** a team of nine software developers to increase feature set
- Raised **\$50k** in pre-seed funding

RESEARCH

WIRELESS NETWORKING & COMMUNICATIONS GROUP | UNDERGRADUATE RESEARCHER

April 2020 – Present | Austin, TX

Currently working with **Prof Lili Qiu** and **Dr. Swadhin Pradhan** on a paper relating to wireless health sensing.

STANFORD CAMARILLO LAB | RESEARCH ASSISTANT

Jan 2018 – Mar 2018 | Stanford, CA

Used game film and mouth guard sensor data to analyze and create visualizations of head impacts in Stanford football players.

PROJECTS

FEVERBASE | CLINICAL TRIAL SEARCH ENGINE

Apr 2020 – Present | MongoDB, Flask

Built the world's largest aggregation of COVID-19-related clinical trials from around the world. Available at feverbase.org

RECORDA | RECORD YOUR PREFERENCES, PRIVATELY

Dec 2018 – Present | iOS, Flask

Mobile-first iOS app to privately store personal preferences

GPX-CSV CONVERTER | PYTHON PACKAGE

June 2018 | Python

Simple package to convert files between GPX and CSV file formats. 10,000+ downloads on PyPi