

ETHAN LEE

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EDUCATION

HARVARD UNIVERSITY

A.B in Computer Science and Statistics

Cambridge, MA

May 2023

Relevant Coursework: Abstraction and Design in Computation. Intro to Theoretical Computer Science. Intro to Statistical Inference.

Activities: Harvard Computer Society (Director of Relations). Harvard Open Data Project (Partnerships Director). Harvard Crimson (Sciences Division Reporter). Satire V. Datamatch (Algorithms Team). Harvard Sports Analysis Collective.

NEEDHAM HIGH SCHOOL

Needham, MA

US Presidential Scholars Semifinalist. Award for Academic Excellence. Class Day Speaker.

June 2019

The Hilltopper (Editor-in-Chief, Website Editor). Math Team (Captain). Senior Citizen Cyber Security Education (Founder/Leader). Projects Abroad Morocco (Instructor). AIME Qualifier.

EXPERIENCE

ECHELON INSIGHTS

Washington, D.C.

Intern

June - August 2020

Contributed to data analyses and created sentiment analysis models for Echelon datasets using machine learning methods.

FATHOM INFORMATION DESIGN

Cambridge, MA

Intern

July - August 2019

Analyzed data using Python and created data visualizations with JavaScript for Barbara Bush Foundation literacy project.

MIT CSAIL

Cambridge, MA

Intern

June - July 2019

Proved simulation property between the implementation and specification of a memory system design using Coq.

HARVARD SEAS

Cambridge, MA

Intern

May 2018 – June 2019

Contributed to the formalization of the Flow-Limited Authorization Calculus (FLAC), an information flow control language; using Coq and Haskell, conducted program verification and made necessary changes to technical report.

PROJECTS

DATAMATCH

Cambridge, MA

Project Member

November 2019 – February 2020

Contributed to matchmaking algorithm based on modifications to Gale-Shapley algorithm.

HARVARD CRIME ANALYSIS

Cambridge, MA

Project Member

October – November 2019

Analyzed patterns of crime in the Harvard area with Harvard University Police data through Harvard Open Data Project.

DRUG & NICOTINE EFFECTS ANALYSIS

Needham, MA

Project Leader

February 2019

Led team to analyze data on substance abuse and make mathematical models on spread and impact of alcohol, marijuana, nicotine, and opioids for M3 Challenge using Python and R.

UNDERSTANDING AFGHANISTAN

Needham, MA; Kandahar, Afghanistan

Founder/Leader

March – September 2018

Facilitated virtual face-to-face discussions between Needham HS students and students from Kandahar Institute of Modern Studies (KIMS), Afghanistan.

SKILLS & INTERESTS

Technical: Python, JavaScript (React, p5), HTML/CSS, R, OCaml, Java, and Coq.

Language: Fluent Korean and Basic Latin.

Additional Interests: Soccer, Global Studies, Short Story Writing, Guitar.