

ETHAN LEE

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EDUCATION

HARVARD UNIVERSITY

Cambridge, MA

A.B in Computer Science and Statistics

May 2023

Harvard Crimson (Sciences Division Reporter). Harvard Computer Society (Director of Relations). Harvard Open Data Project (Partnerships Director). 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). Calculator Education Team (Founder/Leader).

Senior Citizen Cyber Security Education (Founder/Leader). National History Day National Honorable Mention.

AIME Qualifier. Town Soccer (Assistant Coach). Biobuilder Club (Founder/Captain). Needham Diversity Summit (Panelist).

EXPERIENCE

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

May - 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.

HOMETOWN WEEKLY

Needham, MA

Intern/Editorial Staff

September 2015 – May 2019

Wrote various news reports, features, and opinion series for local newspaper.

PROJECTS

HARVARD CRIME ANALYSIS

Cambridge, MA

Project Member

October – November 2019

Analyzed patterns of crime in the Harvard area with Harvard University Police Department 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.

CAUSES OF SCHOOL SHOOTINGS

Needham, MA

Project Leader

April 2018

Created poster presentation following American Statistical Association guidelines; analyzed 300 school shootings and all college football teams per state to test relationships between the two factors using R.

SKILLS & INTERESTS

Technical: Java, Python, JavaScript, HTML/CSS, R, OCaml, and Coq

Language: Fluent Korean and Basic Latin.

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