

# ETHAN LEE

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## EDUCATION

### Harvard University

Cambridge, MA

A.B in Computer Science and Statistics, GPA: 3.88/4.00

May 2023

**Relevant Coursework:** Data Structures and Algorithms. Abstraction & Design in Computation.

Intro to Theoretical Computer Science. Intro to Statistical Inference. Linear Models. Visualization.

**Activities:** Harvard Open Data Project (President). Harvard Computer Society (Director of Diversity & Inclusion).

Datamatch (Algorithms/Web Team). Harvard Crimson. Satire V. Harvard Breakers.

### Needham High School

Needham, MA

US Presidential Scholars Semifinalist. Superintendent's Academic Excellence Award. Class Day Speaker.

June 2019

*The Hilltopper* (Editor-in-Chief). Math Team (Captain). Projects Abroad Morocco (Instructor). AIME Qualifier.

## WORK EXPERIENCE

### Echelon Insights

Washington, D.C.

Intern

June - August 2020

Created sentiment analysis models for Echelon datasets using Python natural language processing and neural networks.

### 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 Computer Science & Artificial Intelligence Lab

Cambridge, MA

Intern

June - July 2019

Proved simulation property between implementation and specification of memory system design for Hemiola project using Coq.

### Harvard School of Engineering & Applied Sciences

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.

## CODING & DATA ANALYSIS PROJECTS

### Political District Similarity Modeling

Cambridge, MA

Project Leader

January – May 2021

Managed collaboration with BlueBonnet Data, a political data nonprofit, using *Machine Learning* techniques to analyze similarities of Congressional districts.

### VotrCrwd (Best Use of Google Cloud Award)

Cambridge, MA

Project Leader

October 2020 – Present

Lead location API and frontend implementation for voting location capacity and information website; won IvyHacks "Best Use of Google Cloud – COVID-19 Hackathon Fund"; to be expanded at Google Cloud COVID-19 Hackathon.

### Cambridge Digital Equity Analysis

Cambridge, MA

Project Leader

September – November 2020

Led project using R and Python to analyze digital equity data in Cambridge for the Cambridge Nonprofit Coalition, organization that serves 50+ other nonprofits in Cambridge area; presented to Cambridge City Government.

### Bloom Website Development

Cambridge, MA

Project Member

September – December 2020

Led frontend development using React and contributed to backend development using Node/Express for website creation for Bloom Education Fund, an education nonprofit.

### Datamatch

Cambridge, MA

Project Member

November 2019 – Present

Contribute to matchmaking algorithm in Python and to real-time responsive notification feature in React and Firebase.

## SKILLS & INTERESTS

**Technical:** Python, R, JavaScript (React, D3), C++, Java, HTML/CSS, MATLAB, SQL, OCaml, and Coq.

**Language:** Korean (fluent), Latin (proficient).

**Additional Interests:** European Soccer Leagues, Current Events, Short Story Writing, Tetris, Guitar, Piano.