

NADINE HAN

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EDUCATION

Harvard College, *Class of 2025* Cambridge, MA

A.B. Degree Candidate in Computer Science

Relevant Courses: Introduction to Computer Science, Vector Calculus and Linear Algebra

Boston Latin School (BLS), *Class of 2021* Boston, MA

Relevant Courses: AP Calculus BC, AP Computer Science, AP Statistics, AP Mechanics

WORK EXPERIENCE

FARHAT LAB, *Research Assistant* (January 2022–Present) Cambridge, MA

- Pulling and integrating Tuberculosis genome sequencing data into a lab database using Python and SQL
- Creating and designing standardized computational infrastructure to easily query database

HARVARD RADCLIFFE INSTITUTE, *Research Partner* (October 2021–Present) Cambridge, MA

- Conducting literature survey on data encryption in video processing and surveillance
- Designing model for filtering and encrypting videos on microcontrollers using Python and C/C++

CABOT CORPORATION, *Intern* (July–August 2021) Online

- Developed model for easy entry and analysis of production data and presented to SEO Sean Keohane

SANOFI GENZYME, *Communications Intern* (July–August 2019) Cambridge, MA

- Updated intranet websites, including department portal and marketing information database
- Compiled information on neurological diseases and treatment methods using company databases into reports to inform department on potential areas of expansion

ADDITIONAL RELEVANT EXPERIENCE

HARVARD COMPUTER SOCIETY DATAMATCH, *Web Associate* (Oct. 2021–Present) Cambridge, MA

- Learning and applying web development skills in weekly projects using ReactJS, Firebase, and Git
- Developing and implementing front-end functions on the application such as chat notifications and portal design

HARVARD WOMEN IN COMPSCI, *Portal Team Associate* (October 2021–Present) Cambridge, MA

- Developing and implementing online member directory sort and filter functions using ReactJS and Firebase

HARVARD COLLEGE CONSULTING GROUP, *Analyst* (September 2021–Present) Cambridge, MA

- Selected to join through rigorous application process with <10% acceptance rate
- Worked in a six-person team to analyze market trends and develop actionable recommendations for billion-dollar, multinational manufacturing company

MIT BEAVER WORKS SUMMER INSTITUTE, *Participant* (July 2020) Online

- Participant in the Autonomous Cognitive Assistant and piPACT Independent Project courses
- Developed and trained visual, auditory, language autonomous assistant applications with Python
- Designed and executed a project evaluating the use of Bluetooth signals to determine proximity to infected individuals; done as a technical supplement to Apple/Google contact tracing plan

BLS SCIENCE TEAM, *Captain* (2017–2021) Boston, MA

- Designed and programmed hardware thermometer using C++ and Arduino
- Led members and competed in events from software development to statistics applications

HORIZONS DEBATE, *Head Instructor* (August 2020 & February 2021) Online

- Raised \$4,000+ for UNICEF's Covid-19 Relief Fund teaching debate curriculum to students aged 12-14

SKILLS

Technical: Python, Java, C(++), React, Firebase, Git, SQL, R, Google/Microsoft Suite

Language: Mandarin Chinese (4 yr.) and Latin (4 yr.)

Hobbies: Dance (choreographing and directing performance), graphic design (designing promo. material and logos)