

NGHI NGUYEN

305 MEMORIAL DR • CAMBRIDGE, MA 02139 • (217) 550-2393 • NGHIN@MIT.EDU

EDUCATION

Bachelor of Science in Computer Science and Engineering

September 2019 - June 2023

Massachusetts Institute of Technology (MIT)

GPA: 4.4 / 5.0

- **Relevant Coursework:** Mathematics in Computer Science, Intro to Embedded Systems, Fundamentals of Programming, Intro to Algorithms, Intro to Web Development, Computation Structures, Intro to Machine Learning, Design and Analysis of Algorithms, Linear Algebra
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WORK EXPERIENCE

Research Assistant

September 2021 – Present

MIT App Inventor

Cambridge, MA

- Accumulated training data and high-level prompt description of apps to analyze GPT-3 language model outputs to find optimal prompt pattern that leads to syntactically valid code
- Assessed data of ideal traits of conversational agents from WEIRD/ non-WEIRD countries, using thematic analysis

Full Stack Development Intern

June 2021 – August 2021

International Business Machines (IBM)

Armonk, NY

- Developed visualization tool for IBM developer team to visualize YAML files of 18000+ lines as interactive graph using Vue, Node.js, resulting in expansion of project by software team after internship

App Development Intern

July 2020 – August 2020

EPECARE, Inc.

Revere, MA

- Generated mobile app prototype that geolocates users in Haiti and compiles database of user reported disasters for nonprofits
- Created app functionality within 4-week time constraint utilizing full stack tools such as React Native, REST APIs, Django REST framework, Microsoft Azure services

Software Development Intern

June 2020 - August 2020

FindOurView

Cambridge, MA

- Implemented dynamic draft feature to deploy onto main site using Django framework, AJAX, Bootstrap, jQuery
- Wrote script to scrape 100+ Google search results and 20+ webpages, and compile into .csv file using Python, BeautifulSoup

Data Analytics Student Trainee

July 2019 - August 2019

Caterpillar Inc.

Champaign, IL

- Developed script to efficiently traverse through build of material database of 1,000,000+ rows, reducing traversal and sorting time from 12+ hours to fewer than four hours, within five-week time constraint using Python, NumPy, pandas
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LEADERSHIP AND ACTIVITIES

Orientation Logistics Coordinator

April 2021 – Present

MIT Office of First Year

Cambridge, MA

- Oversaw program training and event planning for 90+ orientation leaders and 1200+ freshmen, resulting in 20% increase in orientation weekly attendance from last two years

Committee Officer

February 2021 – Present

ActLingual's Committee for Citizenship

Cambridge, MA

- Developed organization website for public access within two-month deadline using JS, HTML, CSS
- Assisted in creating 8-week U.S Citizenship tutoring program by reaching out to local communities and supervising tutor/student weekly lessons, resulting in 100% student capacity of program

Mentor

September 2019 - Present

Codeit

Cambridge, MA

- Taught 40+ middle school girls and nonbinary students coding concepts using Scratch weekly to create final coding projects
- Provided feedback and trainings to 80+ students regarding presentation skills for end of year showcase

Orientation Leader

May 2020 – February 2021

MIT Office of First Year

Cambridge, MA

- Advised 1000+ first years virtually on university resources, recommended courses, and professional resources
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SKILLS AND INTERESTS

Technical Skills

- Backend: Java, JS, Node.js, Python; Frontend: AJAX, Bootstrap, Django, HTML/CSS, jQuery, React, Vue, Vuex

Additional Information

- Language proficiencies: Vietnamese (proficient), French (conversational), Japanese (basic), Spanish (basic)
- Interests and Activities: Multilingual AI, Language Translation Accuracy, Education Accessibility, UI/UX Design