

JOSHUA XIE

+1(425) 247-5062 ◇ Ann Arbor, MI

joshxie@umich.edu ◇ <https://www.linkedin.com/in/josh-xie/>

EDUCATION

University of Michigan - Ann Arbor, MI, *B.S.E in Computer Science and Engineering* ***Expected 2025***

- **Relevant Coursework:** EECS 280 (Programming and Intro Data Structures), EECS 203 (Discrete Mathematics), ROB 101 (Computational Linear Algebra)
- **Activities:** Michigan Hackers, Asian American Association, Korean American Student Association, Sigma Nu Fraternity (Gamma Nu Chapter)

Newport Senior High School - Bellevue, WA ***2018-2022***

- **Relevant Coursework:** AP Computer Science A, Data Structures and Algorithms in Java, Advanced Calculus (Calculus II and III), AP Calculus AB, AP Physics 1, AP Chemistry, AP Economics, AP Chinese Language and Culture, AP Human Geography, AP World History, AP Language and Composition, AP Statistics
- **Activities:** Football Team - *Captain*, Student Government - *Treasurer*, Programming Club - *Vice President*
- **Awards:** Platinum - *USACO*, National AP Scholar with Distinction - *College Board*

SKILLS

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|------------------|---|
| Technical | C++, Java, Python, HTML, CSS, PHP, JS, C, LaTeX |
| Soft | Communication, Version Control, Debugging, Linux Environments |

EXPERIENCE

Incoming Software Engineer Intern ***May 2023 - August 2023***
Microsoft *Beijing, China*

- C+AI Beijing Group.
- Microsoft Azure OCR Development.

Research Intern ***June 2021 - August 2021***
Wormpex AI Research *Bellevue, WA*

- Worked on a team of 6 interns to improve computer vision capabilities.
- Debugged and developed a machine learning driver using Python.
- Addressed overfitting in classifier training and improving driver by up to 6.5%.
- Created a web scraping script using Python to retrieve data relevant to classifier training.
- Optimized the speed of the company homepage by 30%.

PROJECTS

Piazza Post Classifier ***November 2021***

- Implemented a Binary Search Tree and Iterator class supporting various top-level functions including insert, remove, increment, search, size, and height.
- Implemented a Map class that utilized the implementation of the created Binary Search Tree to be built and used as a key data structure in a top-level Machine Learning classifier program.
- Created a classifier driver that reads in Piazza posts in a .csv file and uses a log-probability formula to calculate scores for each post. After training, the driver predicted label topics for new posts.

ADDITIONAL

Consulting and Entrepreneurship Enthusiast // NFL Seahawks Fan // Casual Violin Player // Avid Chess Player