Luke Yang

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EDUCATION

University of Michigan Ann Arbor, MI

Bachelor of Science in Computer Science, Minor in Mathematics Aug. 2021 – May 2025

- GPA: 3.8
- Coursework: Data Structures and Algorithms, Web Systems, Machine Learning, Operating Systems
- Awards/Honors: 5x Dean's List, 4x University Honors, William J. Branstrom Freshman Prize, James B. Angell Scholar

EXPERIENCE

Software Engineering Internship May 2023 – August 2023

Ascent Cloud Detroit, MI

- Built mobile web component incorporating lasso selection functionality of mapped account records using Angular framework, incorporating Google Maps API to allow concurrent highlighting of over 80 records.
- Designed a REST API using Apex backend to implement a CRUD List feature.
- Participated in daily stand-up meetings and biweekly sprint planning, resulting in completion of over 20 major tickets.
- Produced unit tests using Karma and Jasmine testing utilities to improve system code coverages to over 80%.

Software Develoment Internship Jan. 2023 – April 2023

Blackberry QNX Novi, MI

- Collaborated with team of 7 senior engineers in biweekly meetings to create core testing suite of over 30 unit tests.
- Refactored and debugged 80 issues in OS driver packages using C/C++, obtaining optimizations of 10% efficiency.
- Wrote 3 pages of documentation detailing testing suite usage instruction for 20 key components across multiple package versions.

Project Lead August 2023 – Present

University of Michigan Data Science Team Ann Arbor, MI

- Organized project schedule for 10 week timespan, establishing appropriate weekly goals and deadlines to foster continuous growth.
- Researched 6 papers and articles to discover appropriate project algorithms in order to guide group discussions of topics.
- Facilitated weekly meetings for a team of 25 undergraduate students, distributing specific instructions in order to reach group goals.
- Prepared and taught learning material on a weekly basis to 25 students to improve communal understanding of Machine Learning concepts.

PROJECTS

Cracking Worlde | *Python, Flask, React, SQLite* August 2023 – December 2023

- Developed a full-stack Wordle Solver web application using Flask serving a REST API and React frontend.
- Created predictive model using Python library TensorFlow and PyTorch, amounting to a model with over 90% success rate.
- Integrated 6 different algorithms to showcase different success rates, using SQLite database tracking statistical differences between algorithms.

Whats For | *Spring Boot, Java, Gradle, Postgres, React, Google Maps API* June 2023 – December 2023

- Engineered full-stack restaurant recommendation application using third-party APIs to source suggestion data.
- Implemented UserAuth system with Spring Boot, gained familiarity using ORM with Postgres.
- Created React application using Google Maps API to plot dynamically mapped markers.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres, SQLite), JavaScript, HTML/CSS
Frameworks: React, Angular, Node.js, Flask, Spring
Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Unix
Libraries: pandas, NumPy, TensorFlow, PyTorch