Luke Yang

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EDUCATION

University of Michigan **Ann Arbor, MI**
BSE in Computer Science *August 2021 – April 2025*
GPA – 3.8/4.0

- Coursework: Calculus, Linear Algebra, Data Structures and Algorithms, Web Systems, Intro to Machine Learning
- Awards/Honors: 4x Dean's List, 3x University Honors, William J. Branstrom Freshman Prize, James B. Angell Scholar

EXPERIENCE

Ascent Cloud **Detroit, MI**
Software Engineering Intern *May 2023 – August 2023*

- Built key web feature allowing lasso selection functionality of mapped account records using JavaScript frameworks such as Angular and jQuery. Project headlined company summer release and led to 10% increase in quarterly sales.
- Initiated Lasso Tool visual feedback suggestions in design meetings, prompting 5 positive reviews regarding change.
- Designed and implemented scalable backend system for new List feature, using CRUD conventions to create 5 relational objects, data models, and classes.
- Created unit tests using Karma and Jasmine testing utilities to meet system code coverages of over 80%.
- Participated in Agile development methodologies including daily stand-up meetings and biweekly sprint planning, completing over 10 major bugfixes in timespan.

BlackBerry QNX **Novi, MI**
Software Developer Intern *January 2023 – April 2023*

- Refactored and debugged 80 issues in kernel level drivers in C to meet modern coding practices, gaining valuable experience in system-level programming and embedded software development.
- Collaborated with team of 7 senior engineers through biweekly meetings to create testing suite of over 30 unit tests for core components of QNX operating system.

PROJECTS

Michigan Data Science Team **University of Michigan**
Cracking Wordle *August 2023 – Present*

- Developed a predictive model for Wordle game, utilizing early guess results to intuitively deduce potential word solutions using Python libraries such as TensorFlow.
- Predictive algorithm accurately guesses solution word within 4 tries at 60% success rate.
- Integrated Wordle predictive engine into interactive web-based application using Flask, providing visually appealing and highly responsive user interface.

MRover **University of Michigan**
EKF Filter *August 2022 – April 2023*

- Implemented Extended Kalman Filter using Python libraries and machine learning algorithms, reducing static error from orientation and navigation sensor data by 20%.
- Project resulted in first overall placement at national competition for autonomy team.

SKILLS

- Languages: C/C++, Python, Java, HTML/CSS, JavaScript, Typescript, SQL
- Technologies/Frameworks: Node.js, React, Angular, Spring, Flask, AWS, HTTP, PostgreSQL, SQLite
- Other: Git, Unix, Agile, Shell Scripting, ORM, CRUD, REST APIs, Figma