

# Shiyang (Alex) Zhu

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## PROFESSIONAL SUMMARY

Junior studying Computer Science at the University of Michigan passionate about backend development. A self-motivated and proactive problem solver with experience in software engineer roles at early and late stage startups.

## EDUCATION

### B.S.E, Computer Science, University of Michigan-Ann Arbor

Aug 2020 - May 2024

- GPA 3.86/4.00
- James B. Angell Scholar
- Relevant Coursework: Data Structures & Algorithms, Web System, Databases, Software Engineering, Computer Organization, Computer Security

## WORK EXPERIENCE

### Software Engineer Intern, Sigma Computing

May 2022 - Aug 2022

- Expanded abstract specifications into AWS Redshift database driver design with minimal guidance.
- Implemented said driver in Golang, resulting in asynchronous capabilities and >30% faster query speeds.
- Drove frontend support for AWS authentication as part of driver feature with a cross-functional team of six.
- Initiated detailed documentation for the query lifecycle team libraries, empowering knowledge transfer.

### Software Engineer Intern, AICC

Jun 2021 - Aug 2021

- Created C++ testing framework for >10000 lines of existing code; tests achieving >80% branch coverage.
- Implemented driver monitoring system demo in Python with deep learning and conventional algorithms.

## Extracurriculars

### University of Michigan Solar Car Team

Dec 2020 - Jun 2021

- Race strategy member of the University of Michigan Solar Car Team; nine-time national champions.
- Optimized C++ simulator for competition strategy increasing speeds by 40% with a team of >20 people.
- Lead development of a real-time cloud mapping Python application to analyze weather conditions.

### Eragon Coaching

Jun 2021 - Aug 2021

- Built a [website](#) with Paypal integration using React and Next.js for a professional esports coach.
- Utilized search engine optimization to boost client session bookings by >70%.

## TECHNICAL SKILLS

C++, Python, C, Go, Java, Javascript, Typescript, Amazon Web Services, SQL, Git