Jason Xie

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SUMMARY

Innovative technical leader with expertise in full-stack development, cloud computing, and AI/ML. Proven ability to design scalable systems, optimize performance, and deliver award-winning applications. Entrepreneurial founder skilled in cross-functional collaboration, agile methodologies, and driving technical solutions from concept to deployment.

SKILLS

Languages: Java, Python, C/C++, TypeScript, SQL, JavaScript, R
Tools: Data: Pandas, NumPy, OpenCV, Matplotlib Cloud & DevOps: AWS, Azure, Google Cloud Web/Mobile Dev: React/React Native, Node.js, Tailwind CSS, REST API, Flask Databases: MongoDB, MySQL, SQLite AI/ML: PyTorch, TensorFlow, scikit-learn

PROFESSIONAL EXPERIENCE

Founder, Chief Technical Officer, and Sole Developer
June 2024 - Present

Spinor AI, Microsoft for Startups Program

- Developed **React-based website** with user-friendly components, leading to an **80% higher conversion rate** on uses.
- Successfully implemented **CAPTCHA system** to counter system vulnerabilities, protecting the company from breaches.
- Implemented an **API integration** that streamlined data exchange to AWS server, **reducing processing time by 40%.**

PROJECTS

BuckyDining – A Dining Platform for Badgers, by Badgers

- Collaborated with 3 others to develop a prototype a month ahead of schedule that 80 beta testers provided feedback on; I was personally responsible for designing data architecture in **MongoDB** and the mobile application in **React Native**.
- Increased **application efficiency by 20%** through the optimization of queries and database indexing.
- Implemented a real-time analytics dashboard that provides actionable insights based on user data.

InfectID – A Visualization Tool for Medical Professionals

- Submitted in **Congressional App Challenge**; selected by Congresswoman Julia Brownley as **First Place App in CA-27**.
- Spearheaded development of **Flask** website that hosted graph visualization using NetworkX and Matplotlib libraries.
- Implemented **CSV data-processing algorithm** that improved user accessibility and product use.

LensCook – Let's Cook Together

- Collaborated with 3 others to develop an app in a county-wide 36-hour hackathon that suggests recipes using photographed ingredients; our app won first place in our category against 20 other teams.
- Personally responsible for integrating the Google Cloud Vision and Spoonacular APIs that guided user experience
- **Used object-oriented programming** to segment recipes from responses into objects to be displayed on the front end.
- **Collaborated with cross-functional teams to implement agile methodologies, increasing team efficiency by 25%.**

EDUCATION

University of Wisconsin- Madison
Expected Graduation May 2027

Bachelor of Science in Computer Science

Relevant Coursework: *Data Structures, Algorithms, Linear Algebra, Differential Equations, Calculus of Several Variables, Discrete Mathematics, Logic Design, Machine Organization & Programming*

Harvard University - edX
Certificate Issued Dec 2021

Certificate- "CS50x: The Intellectual Enterprises of Computer Science and the Art of Programming"

Relevant Coursework: *Scratch, C, Arrays, Algorithms, Memory, Data Structures, Python, SQL, HTML, Flask*