

Jason Xie

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xjason321.github.io/jason-xie-website/ | US Citizen

EDUCATION

University of Wisconsin- Madison

Madison, WI

Bachelor of Science in Computer Science, Data Science (Dean's List, Honor's Track) – GPA: 4

May 2027

- Coursework: *Scalable Software & Algorithm Design, Object-Oriented Programming, Data Structures & Algorithms, Calculus I – III, Discrete Math, Linear Algebra, Computer Engineering, Applied Statistics & Data Analysis.*

PROFESSIONAL EXPERIENCE

Chief Technical Officer and Full-Stack Developer

Dec. 2024 – Present

CollegeGrub, endorsed by Microsoft for Startups Program (<3% acceptance rate)

Madison, WI

- I developed CollegeGrub - a mobile app that provides daily updates on UW-Madison dining halls.
- Designed MongoDB database architecture that can sustain millions of data points.
- Developed **Python API** that enabled seamless communication to database from **React Native** frontend.
- Implemented web-scraping pipelines for daily menu updates, **attracting 300+ new users within a month.**
- Engineered **BERT-based** AI recommendation engine that **extended app session duration by 30%.**
- Developed React dashboard that provides **150+ actionable insights** to UW-Madison dining board.
- Conducted **70+ interviews** in market subject study to identify key app features.
- Created **Discord MVP trial bot** that allowed key early-stage user interaction by 85+ beta testers.

Co-Founder and Chief Technical Officer

June 2024 – Jan. 2025

Spinor AI, endorsed by Microsoft for Startups Program - Live

Oak Park, CA

- I built Spinor AI - a web platform where users can elevate Midjourney prompts through a modern GUI.
- Integrated API to **AWS-hosted LLM**, **increasing retention rate by 40%** compared to previous model.
- Engineered React website from scratch with SEO optimizations that **increased user traffic by 80%.**
- Built **CAPTCHA and rate-limiting systems** that protect the company from **80+ monthly attacks.**
- Optimized pre-processing algorithm of user-inputted prompt, **reducing processing time by 60%.**
- Created a master document to map the production timeline, improving team coordination in weekly meetings.

PROJECTS

InfectID | *Flask, NEAT, Python, Git – Press Release | Video Demo*

December 2023

- Selected by Congresswoman as a **First Place App in 2023 Congressional App Challenge.**
- Developed **Flask website** that hosts graph visualization using NetworkX and Matplotlib Python libraries.
- Implemented **NEAT-based ML algorithm** to predict patient zero with 70% accuracy.

LensCook | *Python, Streamlit, REST API, Git – Github Repo*

January 2024

- Led a team of 3 to develop a **first-place winning AI app out of 40+ teams** in a county-wide hackathon.
- Integrated Google Cloud Vision API to identify foods from images using AI, leading to **30% higher accuracy.**
- Implemented **JSON processing pipeline** in Python that converts response data to structured classes for display.

Dia-gnosis | *Tensorflow, Flask, Python – Live*

June 2023

- Trained Tensorflow model that diagnoses diabetes with an **85% accuracy** based on training data.
- Redesigned CSV prediction pipeline for **70% faster execution** on mass patient data.

CERTIFICATIONS

CS50x: The Intellectual Enterprises of Computer Science and Art of Programming

edX

Skills: C, Arrays, Algorithms, Memory Allocation, Data Structures, Python, SQL, Flask

Dec. 2021

TECHNICAL SKILLS

Languages: Java, Python, C/C++, TypeScript, SQL, JavaScript, HTML / CSS, R, Ruby, Rust, PHP, Go

Cloud and DevOps: Git, Gitlab, Docker, AWS, Azure, Google Cloud Platform, VS Code

AI/ML, Data: PyTorch, TensorFlow, scikit-learn, Hugging Face Transformers | pandas, NumPy, Matplotlib