Akshay Gona

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EDUCATION

University of Wisconsin - Madison   **Madison, Wisconsin**
B.S. in Computer Sciences, Data Science, and Mathematics (triple major)   *Expected Graduation, Dec. 2025*
Related Coursework: Object-Oriented Programming, Data Structures & Algorithms, Objects & Design, Computer/Machine Organization, Algorithms, Statistical Modeling, Machine Learning

EXPERIENCE

J.M. Smucker Co.   **Orrville, Ohio**
Software Developer Intern – Platform Services Team   *May 2024 – Aug. 2024*
- Designed and implemented an error notification system for **15+ production servers**, improving uptime by **20%** and reducing downtime by **15 hours/month**, benefiting **200+ users**.
- Developed **Python APIs** for error handling, job management, logging, and reporting, with a **React** frontend, deployed via **Docker** on an on-prem **Kubernetes** cluster.

Cognizant   **Union City, California**
Generative AI Extern   *Apr. 2024 – Aug. 2024*
- **Developed a predictive maintenance system** for Cognizant's IT infrastructure, preventing **13 potential failures**, saving **$230,000+** in maintenance costs over 3 months. Deployed across **10 major facilities**, impacted **over 200 servers**.
- Utilized **Python, TensorFlow**, and **scikit-learn** for model development, integrated with **SQL** databases for data storage. Deployed models using **Flask** and **Docker** and monitored performance with **Grafana.**

Scale AI   **San Francisco, California**
AI/ML Intern – Training Data   *Feb. 2024 – May 2024*
- **Fine-tuned custom-built LLMs** using the **Hugging Face Transformers library**, optimizing models like **GPT-3.5, BERT, and T**5 for code generation and evaluation. Reduced false positive rates by **12%** across **3 critical AI/ML pipelines**.
- Collaborated with the research team to enhance model performance, delivering a **10% increase in operational efficiency** and documented findings for future improvements.

Ultimo Software Solutions   **Union City, California**
Software Development Engineering Intern   *May. 2023 – Aug. 2023*
- Developed mappings to integrate and visualize AT&T business workflows for data streams from Atlassian, Jira, Salesforce, and others.
- Performed Data ETL and analysis on Wells Fargo's grievances, appeals and customer service touch points, creating a comprehensive dashboard used by **10+ departments** to improve customer service resolution times by **25%.**

PROJECTS

PokerProCalc: Intelligent Poker Odds Analyzer   **Madison, Wisconsin**
Python, PyQT, matplotlib, unittest, AWS Sagemaker, HuggingFace, socket   *Jan. 2024 – Feb. 2024*
- Developed an app which accurately calculates live Pre-flop, Post-flop odds/hand equity on a card by card basis when entered by users. As the number of hands played and entered increases, player range prediction accuracy increases.

tExtractor   **Madison, Wisconsin**
Python, tensorflow, scipy, numpy, OpenCV,Pillow,pyYAML   *Sep. 2023 – Nov. 2023*
- Designed and developed a program that learns and deciphers text from images and PDFs using OCR and basic machine learning.

ACTIVITIES AND LEADERSHIP

AI Club   **Madison, Wisconsin**
Backend Developer, Sign Language Recognition Team Leader   *Oct. 2023 – Current*
- Led a student team to develop a system that used image recognition and machine learning to translate ASL to audio in real time.

Wisconsin Men's Club Volleyball   **Madison, Wisconsin**
Captain   *Sep. 2022 – Current*
- Co-Captain of the Wisconsin Men's Club Volleyball team
- Led the team to 2nd place in the Division II Club level in the 2022-'23 season.

SKILLS

Programming: Python, Java, C, C++, R, HTML/CSS, JavaScript, SQL(MySQL, Oracle, Postgres), Apex, Swift, Bash
Developer Tools: Git, Docker, TravisCL, GCP, VS Code, IntelliJ, PyCharm, Eclipse, Visual Studio, Kubernetes, Jenkins, JIRA
Frameworks: React, Junit, Flask, Angular, Vue, AWS(EC2, Sagemaker, Lambda, RDS, S3, Bedrock), Hugging Face, Pytorch, Express, Electron, PyQT
Libraries: pandas, NumPy, Matplotlib, OpenCV, scikit-learn, axios, XGboost, seaborn, plotly, tensorflow.js