

I am a recent CS graduate with professional experience leading **AI** and **full-stack development** projects. I have established skills in Node.js, React, Java, Python and AWS, with a focus on system efficiency. I have proven ability to deliver efficient production systems, collaborate in Agile teams, and continuously learn new tools.

Work Experience

Heartland Agriculture Technology, at Heartland Farms, Wisconsin

11/12/24 to Present

AI Potato Sorting Project – **Software Engineer**

- **Built** an AI defect detection system in a 3-person team, reducing shipment defects by **85%**, contributing to the preservation of a multimillion-dollar Frito-Lay contract.
- **Implemented** low-latency system communication (**React UI, Python backend, SQL, Uvicorn API, MQTT, PLCs**) achieving **<400ms** response times.
- **Developed** a **Linux-based wrapper** for 8 LUCID cameras across 4 distributed systems.
- **Spearheaded** development of **React-based** UI dashboards to process **50k+ datapoints/min** and display real-time system alarms for quick response times and crucial business decisions.
- **Authored** a **GitWiki** with version documentation along with a **10-page SOP** for on-boarding.
- **Integrated** Git documentation with **Agile Scrum boards** to streamline development.

Keystone Innovation Labs LLC, West Pittston, PA

12/30/21 to 8/28/24

Intern/Project lead - **Full Stack Android Developer**

- **Developed** a full-stack Android app for a dynamic and automated steel target system, utilizing **Java** for UI, **SQL** databases for data management, and **.NET** for Bluetooth connectivity and web integration.
- **Led fabrication** by assembling steel prototypes, integrating circuit boards and optical interrupts, and writing **C code** to test target cycling and Bluetooth functionality (cut cycle times by **45%**).
- **Installed** and configured technical equipment including an **AccTek 6000w Fiber Laser Metal Cutting Machine**, diagnosed and resolved diverse circuitry issues, upgraded and installed **25+ workstations**, and contributed to **user testing and project management** for an accounting application.

Leadership and Activities

University of Wisconsin - Madison Data Science Club – Head of Social Media – Designed graphics and merchandise, organized events for **700+ members**, created and hosted **Data Science CTF competitions** boosting club engagement and technical skills of participating members.

Student Tutoring Organization – Led workshops and 1-on-1 sessions, mastering software tools and refining tech instruction skills. Gained experience in teaching Python, C++, JavaScript, Adobe Creative Cloud Suite.

Sayoc Tactical Group – Instructed **Sayoc Kali martial arts**, earning Battang Instructor, Apprentice Level III.

Projects

LectureSphere (Kotlin, OpenAI APIs, Firebase): Built a collaborative note-taking app with AI summarization, tested in classroom environments with **80% accuracy** in identifying key lecture points.

MLB Foreign Substance Detector (Python, Pandas, Matplotlib): Analyzed pitcher stats to detect abnormal spin rates, successfully flagging **3 documented cheating cases**.

LLM Applications (Python, OpenAI APIs): FindMyNumber, Interrogatory Q&A game, Personal Notetaker.

Education

University of Wisconsin - Madison

May 2025

Bachelors of Science in Computer Science

Relevant Coursework: Algorithms, Theory of Programming Languages, Databases, Advanced Graphics.

Skills

Core Technical Skills – JavaScript, Java, Python, Kotlin, C/C++, SQL, Node.js, React, HTML, CSS, REST APIs, Android App Development, Agile, Git, Linux (Ubuntu, Kali, Debian), Virtual Machines.

Actively Learning: Machine Learning, LLMs, Haskell, Chart.js, gRPC, .NET, Docker, Embedded Systems, AWS Amplify, AWS Lambda, S3, API Gateways.