Alexander Scheibe

(920) 843-4844 | avscheibe@wisc.edu | alexscheibe.com | github.com/AScheibe

EDUCATION

University of Wisconsin - Madison
Sep. 2021 – Dec. 2024

Bachelor of Science in Computer Science (Honors) and Data Science
Madison, WI

- Cumulative GPA: 3.85/4.0
- Sample Relevant Coursework: Object-Oriented Programming (Java), Data Structures and Algorithms (Java), Intro to Algorithms (Python, C/C++), Operating Systems (C), Big Data Systems (Python, SQL), Data Science Programming I/II (Python, SQL), Data Modeling I/II (R), User Interfaces (React.js, JS, HTML, CSS)

WORK EXPERIENCE

Software Engineer
Jan. 2023 – Present

University of Wisconsin - Division of Information Technology
Madison, WI

- Develop, test, and maintain dynamic web applications within an agile development framework.
- Employ frameworks like React and Node to architect and implement responsive applications for hundreds of users.
- Collaborate with fellow developers, leveraging GitLab for streamlined version control and efficient teamwork.
- Pioneered and orchestrated a comprehensive overhaul of an existing API and database for employee management, ensuring strict adherence to the Model-View-Controller (MVC) paradigm and a robust RESTful interface.

Data Engineer Intern
May 2023 – Aug. 2023

Breakthrough - A U.S. Venture Company
Green Bay, WI

- Designed, built, and maintained end-to-end data pipelines for ingesting, processing, and transforming raw data into usable formats.
- Revamped data workflows by creating an automated Excel-to-BigQuery pipeline via GCP services, eliminating manual processing and slashing ingestion times while ensuring seamless, real-time data integration.
- Collaborated with cross-functional teams, including data scientists, analysts, and engineers, to understand niche data requirements and deliver solutions.

ACTIVITIES

Google Developer Student Club
Sep. 2021 – Present

Lead Developer/Senior Consultant (2023 - Present)

- Put forth initiative to host a speaker series and increase engagement in future development initiatives.
- Leading development of club website and serving as consultant for various development projects.

FIRST Robotics Competition
Sep. 2017 – Present

Mentor (2021 - Present) | Team Captain (2020 - 2021) | Lead Developer (2018 - 2020)

- Engineer robots capable of executing sophisticated tasks, including PID-based navigation and computer vision.
- Foster an in-depth understanding of advanced development concepts among high school students, employing a hands-on approach within a dynamic scrum-based learning environment reflective of the industry.

Computer Science Undergraduate Projects Lab
Sep. 2021 – Present

- Actively collaborate with fellow students on a diverse range of advanced Computer Science projects.
- Organize "hackathons" and other events aimed at fostering an engaging Computer Science community.

PROJECTS

NOVA - An Employee Management System | *JavaScript, React.js, Node.js, Express.js, MySQL, Git*

- Web app built from scratch adopted by UW-DoIT to handle tasks such as employee scheduling and management, inventory tracking and communication.
- Implemented an automated scheduling algorithm to optimize shift assignments and minimize conflicts.
- Implemented a synchronized iCal feed tailored for each employee, enhancing their scheduling experience.

Sparks - A G-Code Editor | *Java, JavaFX, JUnit, FXML, Git*

- Desktop application that allows a user with no experience to write G-Code based on a WYSIWYG model.
- Application utilized in instruction by former high school and presented to U.S. Rep. Mike Gallagher.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, C#, JavaScript, R, HTML/CSS, Bash/ZSH, SQL
Key Frameworks and Libraries: React.js, Node.js, Express.js, Spring, Django, Pandas/NumPy/Matplotlib, Tidyverse
DevOps and Cloud: CI/CD, GCP (BigQuery, Dataflow, GCS, Cloud Functions/Run), AWS (S3), Docker, Kubernetes
Developer Tools: Linux, Git, Atlasian Suite, Visual Studio Code, Visual Studio, RStudio, MySQL Workbench