

Kale Kimmel

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Education

University of Wisconsin-Madison

May 2025

Bachelor of Science in Computer Science (GPA: 3.87/4.00)

Engineering Experience

Software Engineer Intern - Entegral, a Subsidiary of Enterprise (Madison, WI)

5/2024 - 8/2024

- Developed an Angular-based refresh feature that reduced user data latency by 95%, enhancing user experience
- Created machine learning (ML) model for repair time forecasts with a 3.5 MAE, deploying to Vertex AI via automated pipelines
- Designed an interactive user interface for real-time ML repair forecasts, enabling dynamic predictions and data visualization
- Delivered weekly presentations on ML optimization, clearly conveying progress and company impact to all audiences
- Enhanced NX pipelines and Docker Compose configurations, optimizing build/deployment workflows for a 50% efficiency gain

Software Engineer Intern - Guardian Life Insurance (Remote)

6/2023 - 8/2023

- Automated application health analysis using React and Spring Boot, developing a comprehensive full-stack application
- Integrated backend database data to evaluate the application across key metrics like reliability, sustainability, and security
- Worked with cybersecurity and infrastructure teams to provide iterative updates to the function of the existing application
- Enabled \$50,000 savings by identifying 100+ servers for decommissioning through server utilization data analysis

Mechanical Engineering Intern - Kapco Metal Stamping (Grafton, WI)

5/2022 - 8/2022

- Performed data analysis on quality and manufacturing metrics using Python, achieving a 70% reduction in scrapped products
- Optimized production efficiency by designing and fabricating 15+ mechanical components for the metal press operations
- Reverse engineered and manufactured damaged die components in-house using SolidWorks, saving the company \$1,000+

Highlighted Personal Projects

Rate My School Project - ([Github Link](#)) ([Demo Link](#))

React|MongoDB|Node.js|Express.js

- Developed a full-stack web application for school evaluations, featuring advanced search, filtering, and an interactive map
- Implemented secure user authentication using JSON Web Token (JWT) for safe registration, login, and data management
- Built backend with Express.js and MongoDB for robust data management and performance

Machine Learning NBA Predictor ([Python ML Link](#)) ([React Chatbot Link](#))

Scikit-learn|Python|NumPy|React

- Developed a machine learning model to predict NBA game outcomes with 65% accuracy
- Enhanced model accuracy through extensive data preprocessing, hyperparameter tuning, and model evaluation
- Built a React-based web interface to visualize predictions, utilizing Wit.ai for natural language processing and user interaction

Leadership and Extracurriculars

UW-Madison Food for Thought Vice President - (Madison, WI) ([Website Link](#))

2/2024 - Present

- Developed a dynamic, responsive club website using React and Bootstrap, resulting in a 50% increase in club membership
- Integrated event calendar, data visualizations, and multimedia content to enhance user experience
- Established partnerships with local businesses to obtain food donations, enhancing the club's impact and outreach

Volunteer After School Coding Instructor - (Madison, WI)

1/2024 - 6/2024

- Designed and delivered interactive programming lessons via effective communication to elementary school students
- Fostered a collaborative and supportive learning environment

UW-Madison Web Development Club Member - (Madison, WI)

9/2022 - 6/2023

- Created user-friendly websites for university clubs and local businesses using React

Technical Skills

Languages: Java, Python, JavaScript, TypeScript, C/C++, SQL, HTML/CSS, R

Frameworks/Libraries: React, React Native, Angular, Node.js, Spring Boot, Pandas, Express.js

Developer Tools: Git, Docker, Google Cloud Platform, VS Code, IntelliJ, Eclipse, Postman, Kubernetes, Helm, PostgreSQL, AWS

Other: Object Oriented Programming (OOP), Test Driven Development (TDD), REST, Agile, Jira, Confluence