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

Entegral, a subsidiary of Enterprise   5/2024 - 8/2024
Software Engineer Intern   *Madison, WI*
- 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
- Developed an Angular-based refresh feature that **reduced user data latency by 95%,** enhancing user experience
- Enhanced NX pipelines and Docker Compose configurations, optimizing deployment workflows for a **50% efficiency gain**

Guardian Life Insurance   6/2023 - 8/2023
Software Engineer Intern   *Remote*
- **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 such as reliability, sustainability, and security
- Utilized Docker and Kubernetes for containerization and deployment, **improving application scalability and consistency**
- Identified **100+** servers for decommissioning through server utilization data analysis, enabling **$50,000 in savings**

Kapco Metal Stamping   5/2022 - 8/2022
Mechanical Engineer Intern   *Grafton, WI*
- Performed data analysis on quality and manufacturing metrics using Python, achieving a **70% reduction** in scrapped products
- Designed and fabricated **15+ mechanical components** for metal press operations, optimizing production efficiency
- Reverse engineered and manufactured damaged die components in-house using SolidWorks, **saving over $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**
- Designed backend services using **Express.js and MongoDB**, ensuring 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 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**, leading to a **50% increase** in club membership
- Secured food donations through partnerships with local businesses, significantly enhancing the club's impact and outreach

Volunteer After School Coding Instructor - (Madison, WI)   1/2024 - 6/2024
- Led interactive programming lessons for elementary students, fostering a collaborative and inclusive learning environment

UW-Madison Web Development Club Member - (Madison, WI)   9/2022 - 6/2023
- Collaborated with a team to build and scale user-friendly websites for university clubs and local businesses using React

Technical Skills

Languages: Java, Python, JavaScript, TypeScript, C/C++, SQL, HTML/CSS, R, Go
Frameworks/Libraries: React, React Native, Angular, Node.js, Spring Boot, Pandas, Express.js
Developer Tools: Git, Docker, Postman, Kubernetes, Helm, PostgreSQL, AWS, Kafka, Google Cloud Platform, IntelliJ, Eclipse, Figma
Other: Object Oriented Programming (OOP), Test Driven Development (TDD), REST, Agile, Jira, Confluence