

Michael Kuhn

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Education

University of Wisconsin-Madison - B.S. Mathematics, Computer Sciences - May 2024 Graduation - 3.75/4.0

Work Experience

Wisconsin School of Business Teaching and Learning Analytics Developer May 2023 - May 2024

- Developed automated syllabus verification using Python and ensemble integration of OpenAI/Vertex APIs
- Implemented SCD Type-2 database versioning system using Google Cloud, SQL for student enrollment data
- Built dashboards using Looker Studio to track receipt of course evaluation data

Farm 2 Facts *Student Software Developer* Sept. 2021 - Sept. 2023

- Developed website in English and Spanish using Vue.JS/HTML/CSS, using GitLab to ship code
- Developed REST-framework, Object-Oriented API endpoints using Ruby on Rails
- Researched and removed ~1000 spam accounts using PostgreSQL, presented at UW research symposium

UW-Madison Rec Well *Sports Program Supervisor* Sept 2022-May 2023

- Responsible for oversight and management of intramural and club sports competitions
- Collected participant data to gain insight into potential areas for program growth
- Supported professional staff through administrative tasks such as email and data entry

Project Experience

Heart Disease Prediction

- Built SVM/Random Forest model using Scikit-learn and clinical data to achieve ~80% prediction accuracy

Chess Robot Arm

- Robotics course project implementing Python ROS to control a robotic arm that executes chess moves

Running Route Planner

- Utilized Strava and Mapbox APIs to suggest routes based on user preferences, 2D Satellite Map UI

Math Department Directed Reading Program

- Research and implementation of CNNs, GCNs, GNNs for image classification using PyTorch

Programming Skills

- Data Science for ML/AI: PySpark, SQL, Docker, HDFS, Kafka, Google Cloud, PyTorch, Web Scraping
- Systems: Developed cache, heap, and shell simulators using C and Linux libraries, with Bash script testing
- App Development: Ruby on Rails and MySQL for backend management, and HTML/CSS for frontend design
- LLM Implementation: RAG, In-Context Learning, Document Question Answering
- Programming Language Design: Built a Parser for Haskell and Interpreter for BF

Extracurricular Involvement

UW Track Club

- 2024 Distance MVP, Safety Officer, Authorized Driver, Summer Track Series planning committee

TAMID Group

- Group lead for consulting case-study on Israeli wines, won first place for UW-chapter presentation

Volunteer Tutoring

- Spring 2022 led science experiments at a local community center through a service learning course
- Spring 2021 worked with the Urban League as a virtual tutor in a 7th grade science class

Podcast Editing

- Worked with the Daily Cardinal Fall 2021 editing for the Student Dive and Soda Talk podcasts
- Produced a podcast interviewing Basil Data founder Jeff Jones for entrepreneurship course

UW Madison StartUp Learning Community

- 2021-2022 member, attended networking events, and completed a nonprofit entrepreneurship course