

Lance Davenport
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EDUCATION

University of Wisconsin

Madison, WI

Bachelor of Science in Computer Science

May 2024

- Relevant Coursework: Object Oriented Programming, Calculus I and II, Intro to Discrete Mathematic, Machine Organization and Programming, Intro to Artificial Intelligence, Intro to Algorithms, Foundations of Mobile Systems and Applications, Intro to Big Data Systems, Building User Interfaces

EXPERIENCE

Cerberus Technology Solutions

Los Angeles, CA

Data Engineer Intern

June 2023 – August 2023

- Collaborated with the Lead Data Engineer to design and implement a Python module that facilitates seamless data transfers, of any file type, between cloud platforms and SQL databases.
- Developed Azure logic apps that allowed data sent via email to easily be extracted to a blob and formatted into a SQL database.
- Leveraged Generative AI to develop a contract and statement of work analysis tool which unlocked valuable business insights within portfolio companies.

Cerberus Technology Solutions

Los Angeles, CA

Data Engineer Intern

June 2022 – August 2022

- Collaborated with an associate developer, contributing to daily tasks including SQL script development, Microsoft Azure cloud infrastructure management, and Python programming.
- Designed and implemented SQL scripts to create partitioned data tables, optimizing storage efficiency and enhancing data accessibility for analysis.
- Streamlined Azure Cloud pipelines by integrating Docker containers, improving deployment and scalability.
- Developed a proprietary algorithm that utilized web scraping and sentiment analysis driven by machine learning to find and analyze possible future investment opportunities.

PROJECTS

Senior Capstone Project

Madison, WI

Orange Button

January 2024 – May 2024

- Developed an interactive website for uploading solar module PDFs, converting them to Orange Button's solar taxonomy in a standardized JSON format.
- Designed and implemented a custom user interface using React, Javascript, and CSS.
- Created an API with Flask and Python, leveraging Google Cloud Platform, Vertex AI, and LangChain to automate PDF conversion.

Foundations of Mobile Systems and Applications Project

Madison, WI

Fix: A Solution to the Artificial Nature of Online Dating

September 2023 - December 2023

- Developed a unique blind dating app using Swift and Firebase, allowing users to be set up on blind dates by friends, with notifications for matches and an anonymous chat feature to facilitate meeting plans.
- Implemented feed and matching functionality, allowing for users to view and like each other.
- Designed and developed user creation screens, settings, and profile editing functionality, handling both front-end interfaces and back-end integration.

SKILLS AND AWARDS

- **Programming Languages:** Java, Python, MySQL, JavaScript, HTML, CSS, C, Swift
- **Technologies:** Azure, Google Cloud Platform, Docker, Generative AI, Git, Vercel, Spark, React, React-Native
- **Awards:** Dean's List (Fall 2020, Spring 2021)