

# Andrew Lewis Logan

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## EDUCATION

### University of Wisconsin-Madison

Madison, WI

- Intended Degree: Bachelor of Science
- Intended Majors: Computer Science, Economics
- Relevant Coursework: Object-Oriented Programming (I-III), Data Structures and Algorithms, Systems Programming, Intermediate Microeconomics and Macroeconomics, Applied Statistics for Engineers, Calculus (I, II), Discrete Mathematics

May 2024

### Technical Skills

Languages: Java, Python, C, JavaScript/TypeScript, Bash, HTML/CSS

Frameworks & Technologies: Spring Boot, Flask, Azure Python/Java SDK, Locust, JUnit, Pandas, Vue, React, JavaFX, Git, Gitlab, Jira

## WORK EXPERIENCE

### U.S. Bank

Minneapolis, MN

*Software Engineer Intern*

June 2023-August 2023

- Developed Java Spring Boot API to manage enterprise evidence data and engineered ETL pipeline involving Event Hub, Blob Storage, Spark, Scala, ADLS Gen2, and PowerBI
- Migrated enterprise evidence from Azure Blob Storage to ADLS Gen2 storage, orchestrating data extraction, parsing, and validation with Python and Bash-based scripts, and monitored the process through PowerBI
- Leveraged Azure Python SDK to replace outdated container instances by efficiently copying and creating new blob clients for enterprise evidence
- Wrote comprehensive unit tests of endpoints ensuring optimal performance, increasing code coverage to over 80%
- Engineered API performance and load testing on producer and consumer endpoints using Locust, replacing JMeter test repository
- Monitored and logged performance tests through Splunk and Azure Portal, ensuring optimal system responsiveness and scalability
- Collaborated on refining pipeline files for Kubernetes clusters, enabling smooth deployment, scaling of applications, and optimizing resource utilization
- Played a key role in Agile Scrum team by participating in weekly sprint planning/refinement, daily standups, and retrospectives; also reviewed and tracked tickets and pull requests, utilizing Jira and Gitlab for CI/CD processes

### Epic Systems

Verona, WI

*IT Intern*

June 2022-June 2023

- Oversaw hardware for 500+ new hires monthly using internal databases to effectively image and deliver devices across campus
- Successfully imaged 1,000+ computers, desktops, and mobile devices in two months using KVM technology
- Developed a Python script executable on a Raspberry Pi for managing device inventory, resulting in improved efficiency and organization campus-wide
- Played an integral role in front-end development, contributing to an internal site and mapping UI using Vue.js, TypeScript, and C#.NET endpoints

## PROJECTS

### DegreeMate (Vue, TypeScript, Python, Flask, BS4)

November 2022

- Collaborated on a full-stack web app at CheeseHacks 2022 hackathon, utilizing Vue, TypeScript, Flask, and BS4, for personalized degree path suggestions based on user's transcript
- Employed Vue and TypeScript for the dynamic front-end interface, while leveraging Flask and BS4 to compile and manage a database of UW courses and prerequisites

### Yahoo Finance Trending Tickers API (Python, Flask, BS4, SQLite)

December 2022 - Present

- Developed a REST API utilizing BS4, Flask, and SQLite to provide real-time access to Yahoo Finance's Trending Tickers data
- Engineered efficient data scraping, transformation, and storage processes, ensuring accurate financial insights in SQLite database
- In progress: A daily email digest feature using yagmail and smtplib for timely distribution of financial updates to subscribers

### MadMapper (Java, OOP)

December 2022

- Engineered and deployed a Java CLI application utilizing Dijkstra's algorithm for efficient and customizable travel route selection, optimizing pathfinding

### BingoCode (React, JavaScript, Firebase)

September 2021

- Developed a single-page bingo game application for "WebHacks 2022" Hackathon using React and Google Firebase