Matthew Graba

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EDUCATION

UNIVERSITY OF MINNESOTA - TWIN CITIES   Minneapolis, MN
Bachelor's Degree in Computer Science   December 2024

Relevant Coursework:
- Software Engineering, Program Design & Development, Artificial Intelligence
- Advanced Programming Concepts, Algorithms & Data Structures
- Machine Architecture, Computer Architecture, Introduction to Operating Systems

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, SQL, C, C++, C#, OCaml, Assembly
Tools & Technologies: Git, Docker, Linux, REST APIs, UML, React, Node.js, Express, MongoDB, JUnit, Postman
Concepts: Agile Development (Scrum), SDLC, TDD (Unit tests), Groovy (learning), Angular (beginner), Object-Oriented Design, Relational Databases, Client-Server Architecture, Software Design Patterns (Observer, Decorator)

PROJECT EXPERIENCE

AI Dev Debugging Assistant Tool | *Full Stack SaaS | React, Node.js, MongoDB, OpenAI API*
- Lead developer of a full-stack debugging assistant tool to help developers troubleshoot errors using NLP-based AI.
- Implemented backend using Express and Node.js with RESTful APIs; ensured performance and reliability through modular design.
- Developed frontend using React; integrated real-time form handling and dynamic AI response display.
- Added support for MongoDB error storage and retrieval using CRUD operations.
- Practiced Agile workflows, implemented unit testing (Jest, Postman), and deployed in Dockerized environments.
- Applied software engineering principles such as SDLC, clean architecture, and version control.

Real Estate Lead Follow-Up Automation App | AI-Powered CRM Tool • JavaScript, Google Apps Script, Sheets API
- Engineered a lightweight CRM workflow within Google Forms/Sheets for real estate lead tracking and follow-up.
- Developed auto-generated, personalized AI email responses for each agent based on lead form submissions.
- Enabled support for multiple agents, storing and routing form data dynamically to each agent's context.
- Planned and prototyped future migration to a full-stack SaaS application with React, Node.js, MongoDB, and Gmail API for scalable agent login and SMTP-based email handling.
- Emphasized MVP architecture design, integration planning, and practical use of prompt engineering.

Drone Package Delivery Simulation | *C++, Docker, UML, Design Patterns*
- Simulated a modular drone delivery system using Observer and Decorator design patterns
- Implemented battery management, theft prevention, and Docker-based deployment
- Collaborated via GitHub, designed UML diagrams, and wrote unit tests to ensure system reliability

WORK EXPERIENCE

ALL STAR TRANSPORTATION   Maple Grove, MN
Delivery Driver   2023-2024
- Managed route planning and efficient package delivery while providing top-tier customer service
- Operated large vehicles with a safety-first approach

HY-VEE GROCERY STORE   Brooklyn Park, MN
Meat Department Manager   2021-2022
- Led a small team to streamline operations and improve department efficiency
- Defined business requirements and implemented process improvements

THE CLADDAGH IRISH PUB   Maple Grove, MN
Line Cook   2018-2019
- Maintained quality and speed in a fast-paced kitchen environment
- Memorized complex recipes and supported team coordination during peak hours