

KUSH K. PATEL

(734) 881- 3768 • patkush@umich.edu • US Citizen • [Linkedin](#) • [Github](#) • [Portfolio](#)

EDUCATION

University of Michigan - School of Engineering

Ann Arbor, MI

Undergraduate Student - Bachelors of Engineering

Graduation: April 2026

- Major: Computer Science
- Relevant Coursework: Discrete Math, Programming and Intro Data Structures, Data Structures and Algorithms, Computer Organization, Computational Theory, Web Systems, Artificial Intelligence, Software Engineering

EXPERIENCE

Ford Motor Company

Dearborn, MI

Data Engineering Intern

May 2024-Present

- Develop and Automate several PC support procedures using power automation/application tools for the Enterprise IT Solutions team helping ease process of onboarding 500+ PCs and reducing update times by 75%.
- Build and maintain two major web applications using Ford Cloud Web and various Dev/Ops tools, including Java and Spring Boot, to streamline site IT management operations and automate system monitoring.
- Implement migration of several applications from PCF to GCP to enhance interoperability with other GCP-hosted systems to help facilitate smoother data integration and system communication.

Ford Motor Company

Dearborn, MI

Systems Engineering Intern

May 2023-August 2023

- Created Python scripts to construct a data pipeline through GCP allowing successful data migration of over 1.5TB of data from Ford's internal database to E2open software for Ford's Supply Chain Digitization team.
- Crafted SQL scripts to construct ticketing UI that retrieved and escalated performance requests from suppliers.
- Applied various testing tools such as Postman to develop comprehensive API and UI tests, successfully identifying and mitigating 50+ potential issues, enhancing system reliability by 35%.

Ford Motor Company

Dearborn, MI

Software Engineering Intern

June 2022-August 2022

- Developed Javascript scripts to construct/alter numerous Agile applications for Ford's Plan and Integrate team.
- Utilized various DevOps applications, including Grafana and Jenkins, to customize the UI presentation for vendors, incorporating graphs and pipelines improving project monitoring up to 15%.
- Altered numerous repositories to up-to-date build process employing a Git-centric approach with systematic branching, version tagging, and submodules for efficient dependency management.

PROJECTS

Financial Manager

- Implemented full stack financial application, leveraging Flask for processing financial/transactional operations and real-time balance updates while processing user's financial patterns.
- Constructed UI implementing HTML, allowing users to interact seamlessly with the front-end features to see real-time updates to account balance with access to financial activities for responsible spending.

WarCraft

- Developed a full-stack video game allowing users the possibility to create/expand an army of various personas, each built with various characteristics for battle against a skilled-based bot.
- Implemented a Qt front-end framework to allow players to visually control/build their army and a C++ backend to store data regarding the users current strength and constantly update the bots inventory proportionally to the users army.

Skills

Programming: C, C++, Python, SQL, Flask, HTML, CSS, Java, JavaScript, QT Framework, Mathematica, MATLAB, Springboot

Tools: PyCharm, Eclipse, Jupyter Notebook, Git, React, Agile (Scrum), GCP, VS Code, Jenkins, Rally, Grafana, Postman, Qlik Sense, Alteryx, SQL Dashboard