Mitchell Alley

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WORK EXPERIENCE

JLG - *Subsidiary of Oshkosh Corporation* - Software Engineer   Jun 2022-Present
- Responsible for the development and expansion of the manufacturing execution system (MES), facilitating company-wide visibility to the tracking of raw materials to finished goods.
  - Utilized and developed REST APIs to generate reports from subassembly line raw data.
  - Designed a mobile application using Ignition (Python/SQL) and an Azure OCR API to replace manual entry transactions with scanning capability, increasing operator efficiency and reducing error rates.
- Serve as the primary software development project lead at the JLG Shippensburg plant to optimize and streamline production processes, utilizing technologies such as Ignition and Puppeteer (Javascript).
  - Designed an engine subassembly priority queue, increasing productivity by 32%.
  - Excelled at rapid application development, improvements, and management of technological issues throughout JLG plants. Generated over $125,000 in savings on subcontracts

Polaris - Data Analytics Intern   May-Aug 2021
- Developed Power BI dashboards, showcasing costs of Snowflake and Alteryx usage across Polaris facilities.
- Spearheaded the vendor search to enhance the knowledge management in the Insights Library SharePoint site.
- Used SQL to clean Polaris safety claim data to facilitate increased efficiency in response time.
- Received training on data analysis software including Alteryx and Power BI.
- Collaborated with other Polaris interns and employees to evaluate whether Polaris should re-enter the jet ski market.

University of Wisconsin - Madison - Data Analytics Intern   May-Jun 2020
- Applied and was selected from a competitive pool of students to independently research and present on how COVID-19 affected crime rates in New York City and the potential economic consequences.
- Forecasted economic outcomes in NYC from NYPD data through graphs, utilizing Python libraries including Pandas.
- Gained real-world experience forecasting and interpreting data, collaborating with students, alumni, and advisors.

UW Parkside App Factory - Software Engineer Intern   Jun–Aug 2018
- Trained in Swift programming language and developed mobile apps through Xcode for community clients throughout southeastern Wisconsin. Collaborated with students and faculty to create apps in a startup company environment, gaining real-world experience working with clients on live projects.

EDUCATION

University of Wisconsin-Madison, Madison, WI   Sep 2018 - May 2022
- Bachelor of Science degrees in Computer Science and Economics with Math Emphasis. GPA: 3.5/4.0
- Former student-athlete on the UW-Madison Cheerleading team and UW-Madison Men's Rowing team with a practice/event schedule of 25+ hours per week, requiring effective time management.

SKILLS

Languages: Python, Java, JavaScript, SQL, C, Swift, CSS, HTML
Processes: Git, CI/CD, Agile, Scrum, REST, Waterfall, DevOps
Testing: Puppeteer, Selenium, JUnit, JMeter, Test Driven Development (TDD), Postman, Unit Testing
Other: RESTful APIs, Azure Services, Power BI, Node.js, Vue.js, PyTorch, Team Leader, Interdisciplinary Collaboration, Issue Analysis and Resolution, Strategic Mindset, Project Management, Detail Oriented

PROJECTS

- Created a machine learning model using PyTorch that differentiated product with 92% accuracy.
- Designed a system that automatically bought, sold, and balanced an investment portfolio, summarizing actions via a Twitter bot using Puppeteer and TD Ameritrade APIs.