Hayes David Bentley

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Overview: Aspiring software and automation engineer pursuing full-time employment graduating in Dec 2023. Excited to tackle new challenges and looking to apply skills learned in four internships, research positions, and University project experience.

Education and Honors

The Ohio State University, College of Engineering, Aug 2019 – Present
Bachelor of Science, Electrical and Computer Engineering (B.S)
North Central State College, Aug 2017 – May 2019
Associate of Science, Integrated Engineering Technology (A.S)

Work Experience

SpaceX, Automation Software Engineering
Starship Production Team, May 2023 – August 2023: Brownsville, TX (Starbase)
- Developed new automated protocol for user management control.

Tesla Motors Inc, Data and Automation Engineering
Cell Manufacturing, September 2023 – Present: Austin, TX (Gigafactory Texas)
- Created a custom gRPC data pipeline to automate the manufacturing process, resulting in a 97% reduction in process time.
- Designed and implemented a scalable and fault-tolerant automation system for a manufacturing client using Python, RestfulAPI, gRPC, Apache Kafka, and Java. The system will handle over 1,000 component transactions per day.
- Contributed to robust internal data visualization tool with experienced gained in Docker, deploying Kubernetes pods, and React.

Marathon Petroleum Corporation, Automation and Controls Engineering
Terminal Engineering, May 2022 – August 2022, Findlay, OH
- Developed custom algorithms to control blending and dispersion of high value petroleum products
- Developed low level PLC code to enact control measure for petroleum mixing/blending.

Marathon Petroleum Corporation, Application Development Engineering
Commercial Marketing Applications, May 2021 – August 2021, Findlay, OH
- Primary developer that converted cloud-based Salesforce CRM data into local SQL Server databases.
- Built custom ASP .NET Core web application using C#, SQL Server, and Kendo UI (JS)

Research Experience

Center for Design and Manufacturing Excellence, Student Software Engineering
Student Software Engineering, September 2021- May 2022, Columbus, OH
- Created android application interfaced with mobile Spectrometer to analyze chemometric properties
- Skills used: Java, Gradle, Android Studio, Machine Learning, Bluetooth Low Energy

Leadership Experience

- Project leader on electric vehicle racing team (North Central State College) managing five other students
- Training supervisor of 30 technicians, educating on the implementation of cell tracking system (Tesla)
- Operations coordinator synchronizing wiring efforts of 10+ electricians (Marathon)

Qualifications and Characteristics

Programming Languages: Python, Java, Go, C#, React.JS
Software Skills: gRPC, REST API, Protocol Buffers, npm
DevOps: Docker, Kubernetes, Splunk
Database: Amazon AWS S3, Trino, MySQL, Postgres, Dbeaver