Yajur Vashisht

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Experience

Controls Engineer — July 2024 - Current
Shell; Process, Automation, Control, and Optimization (PACO) — Sarnia, ON, Canada

• Optimized process control systems using Honeywell technologies, enhancing efficiency and reliability through SCADA integration and real-time data analysis.
• Managed and updated servers and control systems, ensuring seamless operations and high security by applying systems engineering principles and cybersecurity best practices.
• Collaborated on process automation projects, utilizing PID control and advanced analytics to troubleshoot issues, improve performance, and support continuous improvement initiatives.

Software Engineering Capstone — Jan 2024 – May 2024
Tesla; Dojo Testing Team — Palo Alto, CA, United States

• Spearheaded the development of a web-based database management tool for Tesla's Dojo Testing team, focusing on enhancing efficiency within internal pipelines.
• Employed advanced web development skills using TypeScript, Next.js, MongoDB, and Next-Auth to build a flexible, user-friendly interface for efficient data management and viewing that incorporates OAuth via Azure.
• Initiated a comprehensive project to innovate Tesla's data handling capabilities, incorporating unit and integration testing frameworks, aimed at surpassing a target of 80% test coverage.

Project Coordinator Intern — Apr 2022 – Dec 2022
City of Edmonton; Renewable Energy Services — Edmonton, AB, Canada

• Assisted in the utility design and development of an approval process, resulting in utility customer growth of 15%.
• Fielded design coordination, reviews, and development of process flow charts.
• Monitored engineering activities and worked with project teams to control scope, schedule, quality, and budget.

Maintenance Engineer Intern — Jan 2021 – Aug 2021
PepsiCo; Maintenance — Calgary, AB, Canada

• Undertook continuous improvement projects to reduce downtime by 2 hrs/week and increase efficiency by 0.6%.
• Revamped and coded a SharePoint system for breakdown tracking, integrating kaizen principles to boost maintenance efficiency and predictability.
• Maintained statistical and financial records, ensuring compliance with health and safety legislation, creating maintenance procedures and PMs, and managing stocks of supplies and equipment.

Skills and Certifications

Computer Skills	HTML, CSS, JavaScript, React, Node, Next, SQL, R, Java, Python, C, C++, MATLAB, GitHub, TensorFlow, PyTorch, scikit-learn, GPT 3.5/4, Azure, AWS, PySpark, Hadoop, VSCode, MS Visio, HYSYS, VMG Symmetry, AutoCAD, SolidWorks, SharePoint, VBA, MS Office, Google Suite
Certifications	PMP (PMI, 2024), AWS Cloud Practitioner (Amazon, 2024), PLC Software & Hardware Automation (United Engineering, 2024), Google Data Analytics (Coursera, 2023), Web Development Bootcamp (Udemy, 2023)
Motorsport Certifications	Aero Design (MotorsportEngineer.net, 2023), Performance Engineering in F1 (MotorsportEngineer.net, 2023)

Relevant Projects

Addiction Counselling iOS App — Mar 2024
• Developed a mobile application utilizing React Native and NativeWind to guide individuals through addiction
• Implemented an interactive ChatGPT-powered conversational agent within the app, for supportive dialogue

Python Pong AI — Dec 2023
• Coded an AI to teach itself how to play the computer game Pong through PyGame using the ML algorithm, NEAT.

A* Path Finding Algorithm — Nov 2023
• Engineered an A* algorithm visualizer, to optimize pathfinding.
• Displays an interactive tool for the user to navigate graph complexities.

Education

Master of Engineering, Software Engineering
University of Calgary, April 2023 – May 2024
Bachelor of Science, Chemical Engineering, Sustainability
University of Alberta, September 2017 – April 2023

Volunteer Experience

UofC GSA Academic Committee, Aug 2023 – May 2024
UofA FSAE, Sept 2020 – April 2022
UofA FSAE Electric, Controls Engineer, May 2020 – April 2022
AVP External, ChemE Student Society, Sept 2019 – April 2023