Conner Sax

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EXPERIENCE

8/2024 – Present
Ottawa, ON

Test Automation Engineer @ Ford — **L&T Technology Services**

- Working on automating happy path and negative test cases for components in Ford's AUTOSAR Classic stack using primarily Python's Slash framework and virtualized Linux environments.
- Communicate with the developers of components when test cases fail to aid in the fix. This includes generating and sharing useful log data.
- Worked on setting up new automated test repo for existing networking component to move away from running manual tests. This included also setting up GitHub checks as well as the Jenkins CI/CD pipelines.
- Helping in the testing and documentation of new simulation environment that allows for previously non-feasible automated tests to be created. For example, stubbing function calls and variables to force any scenario of the component to occur.

6/2022 – 03/2024
Windsor, ON

Software Developer — **CIBC Wood Gundy**

- Wrote a new report automation software using Python. Multithreading was used to keep GUI & report generation time snappy.
- Updated an existing reporting software to be more automated. Added an error checking layer which allowed for an approximate 20% improvement in overall report generation time.
- Updated existing tools to improve speed. One of these tools was a list comparison tool which I was able to bring the main algorithm down from $O(n^2)$ to an estimated O(n) runtime.
- pandas, pdfminer, openpyxl, and other Python libraries were used to streamline daily, weekly, & monthly tasks.

1/2021 – 3/2022
Windsor, ON

Embedded Software Developer — **APAG CoSyst Electronic Control Systems**

- Wrote embedded C code for multiple projects that was up to the AUTOSAR Classic standards.
- CAN, LIN, I^2C, UART, and SPI communication protocols were used throughout projects done.
- Developed an End of Line test for a product using CAPL.
- Created multiple business intelligence tools using Python, Java, PowerApps, and PowerBI.
- Monthly scrum goal meetings, and daily standup meetings occurred to keep team communication open.

PROJECTS & EVENTS

9/2021 – 4/2022
Capstone Project

Buoy VPN — **github.com/prairir/Buoy**

- Peer-to-Peer Mesh VPN where every node keeps track of all other nodes.
- Written in Go for Linux/UNIX based systems.
- Developed multiple IP support.
- Co-wrote documentation.

10/2020 – 1/2021
School Project

UWinRent — **github.com/prairir/UwinRent**

- Website allowing university students to view rental properties.
- Created using React, Flask, and GraphQL.
- Developed a custom GraphQL schema and engine implementation.
- Developed dynamic map rendering using ReactJS.

EDUCATION

5/2023

B.Sc. in Computer Science with Software Engineering (Honours) — **University of Windsor**
Courses: Data Structures & Algorithms, Databases, Networks, Software Verification & Testing, etc.

SKILLS & TECHNOLOGIES

Languages: Python, Java, C, SQL, CAPL, bash, batch, JavaScript, HTML, CSS

Operating Systems: Linux/UNIX, macOS, Windows

Microsoft Suite: PowerApps, Dataverse, Power Automate, PowerBI, Dataverse API, Office365, Azure AD

Continuous Integration & Agile Tools: Jira, Confluence, Jenkins

Technologies/Frameworks: Qt, pytest, Slash, PostgreSQL, Flask, TCP/IP, Git, SVN, Regex

REFERENCES

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