Hayat Jami

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EDUCATION

University of Ottawa — Sep 2019 – Dec 2024
BASc in Electrical Engineering & BSc in Computing Technology — *Ottawa, ON, Canada*
Specialization in Power and Sustainable Energy
- 1st Prize Winner - Best Hardware Project, HackHers 2024

EXPERIENCE

Optical Engineer — May 2024 – Aug 2024
Ciena — *Ottawa, ON, Canada*
MATLAB, PYTHON, BITBUCKET, JSON, LINUX, TELEMETRY, DATA ANALYSIS
- Developed a JSON explorer in **MATLAB** with **multi-caching** to optimize extraction time by **97%**.
- Conducted **TPS switch tests**, **automated switch time analysis**, with data fitted to a **normal distribution**.
- Researched **Ciena telemetry**, explored use cases, and **analyzed data** for **performance insights**.

Software Developer in DevOps — May 2023 – Aug 2023
Ford Motor Company — *Ottawa, ON, Canada*
GROOVY, JENKINS, BASH, LINUX, PYTHON, OBJECT-ORIENTED PROGRAMMING
- Created a tool to **assess & approve GitHub PRs** with **natural language processing**, & **dynamic labeling**.
- Designed & developed an **automation tool** to assist with **triaging** tasks to members through GitHub **API**.
- Applied **RegEx** to streamline **data processing** & **pattern matching** to improve automation runtime by **35%**.
- Established & managed **Jenkins pipelines** for **seamless code integration** & enhanced **team collaboration**.

Software Developer — Sep 2022 – Dec 2022
Ford Motor Company — *Ottawa, ON, Canada*
BASH, LINUX, PYTHON, JENKINS, AWK, DEVOPS
- Conducted thorough research on **JFrog Artifactory** and developed **prototype** for **file transfers** under **1 ms**.
- Set up and maintained **Jenkins pipelines** integrating efficient **code changes** and **team collaboration**.
- Enhanced existing scripts runtime by leveraging Python's extensive libraries and frameworks such as **Requests** & **Subprocesses**, reducing average API call range from **7 to 2** per pipeline cycle.
- Processed complex **data operations** & developed **analytical algorithms** with **20%** faster wiki data extraction.

Loadbuild Analytics Application Software Developer — Jan 2022 – Apr 2022
Ford Motor Company — *Ottawa, ON, Canada*
ELASTIC STACK (ELK), GO, KUBERNETES, CI/CD, JENKINS
- Implemented **data processing** and **analytics algorithms** to handle **large datasets** efficiently and **extract** meaningful insights for **loadbuilding operations**.
- Designed an **intuitive UI** to present **Jenkins** output results and **analysis** with **interactive visualisations.**

PROJECTS

AutoMow - Engineering Capstone Project | *Python, Kotlin, Android SDK, Flask, MySQL*
- Developed an **automated** lawn-care solution that utilizes sensors for informed **decision-making** over a robust **network architecture**.
- Engineered a **navigation** system, enabling **precise positioning** & **optimized mowing paths**.
- Designed an Android app collectively with a custom **API** for dynamic **state memory** & **concurrency**.
- Integrated **temperature, moisture, and rain sensors** to a base station with a **return-to-base feature**.

AutoRent - Car Rental Services | *Android, Java, Firebase, CircleCI, Android SDK, Figma, Python*
- Designed an Android app to facilitate **vehicle rental services** using an **account-based booking system**.
- Stored user data in an **encrypted** serverless database using **Firebase** with **real-time** data safety protocols.

TECHNICAL SKILLS

Languages: Python, Java, Bash, Go, C/C++, C#, Groovy, JavaScript, HTML/CSS, MATLAB, Kotlin
Frameworks: Elasticsearch, Kibana, React, Node.js, Flask, JUnit, MUI, OpenCV, PyTorch
Tools: Git, Jenkins, CircleCI, Kubernetes, Google Cloud Platform, Firebase, Docker, BitBucket
Software: Linux, Vim, PyCharm, IntelliJ, Android Studio