Dylan Batista

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EXPERIENCE

Bell Canada
Sep. 2020 - Present

Software Developer | May 2023 - Present   *Montréal, QC*

- Responsible for improving the internet network service of over 4.5 million customers through data analysis and the development of software solutions.
- Automated a robust SSH client manager using Python and Ansible with multithreading capabilities, significantly enhancing update deployment times to over 4.5 million embedded devices, scaling daily updates from 50k to 210k devices.
- Wrote Python scripts and notebooks to analyze TCP/IP and UDP speed-test traffic captured with tcpdump, identifying configuration and equipment issues that improved throughput and reduced latency by 33%.
- Built a Python data processing tool, reducing data consolidation time from 24 hours to just 1 minute, streamlining data analysis processes.
- Authored Bash scripts to enable the deployment of embedded script fixes, reducing deployment time from 2 months to instantaneous execution.
- Enhanced system scalability and portability through containerization with Docker and OpenShift, optimizing deployment workflows and improving deployment frequency by 5x.
- Spearheaded the development of a high-availability job scheduling app, enabling test automation and expanding network KPI coverage to handle thousands of speed-tests per hour, increasing error visibility by 110%.
- Mentored interns on network data analysis and automation best practices, supporting successful project delivery.

Network Data Analyst Intern | May 2022 - Oct. 2022   *Montréal, QC*

- Wrote SQL (Trino) queries to identify network issues, leading to network improvements and yearly cost savings of $600K.
- Performed packet inspection and traffic tracing (tcpdump, Wireshark) to validate the impact of network changes and detect anomalies.
- Automated data analysis using Python (Pandas, NumPy) on data from Hadoop and Kafka.
- Implemented custom link-aggregation and load-balancing network configs for Unix-based systems, doubling maximum network bandwidth while keeping the impact on latency minimal.
- Built monitoring dashboards for network analysis using Elasticsearch and MicroStrategy.

Software Development Intern | Sep. 2020 - Sep. 2021   *Montréal, QC*

- Automated manual tasks using Ruby, Selenium, and Appium, improving operational efficiency by over 5x.
- Developed a REST API for secure file transfers using Node.js and Docker.
- Created dynamic data visualization tools with Python (Pandas, NumPy, Plotly) and MongoDB.

EDUCATION

Polytechnique Montréal
Sep. 2018 - May 2023

Bachelor of Engineering in Software Engineering   *Montréal, QC*

SKILLS, TECHNOLOGIES, LANGUAGES & INTERESTS

Skills: Agile Methodologies; Continuous Integration; Version Control; DevOps; Automation

Technologies: Linux (RHEL 8/9, BusyBox, Ubuntu); Git; Ansible; MongoDB; Docker; Podman; Kubernetes; OpenShift; ArgoCD; Artifactory; GitLab; GCP; React; Node.js

Programming Languages: Python; SQL (PostgreSQL, Trino); Bash; TypeScript

Languages: English; French; Portuguese

Interests: Weightlifting; Food; Video Games; Beat Making; Travelling