Jing Yang Fan

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TECHNICAL SKILLS

Languages: Python, Typescript, C#, SQL, C, Bash, PowerShell

Technologies: AWS, Node, Kibana, Grafana, Flask, ElasticSearch, Angular, React, Vue, Docker, Nginx

Work Experience

Laserfiche Toronto, Ontario

Software Engineer - Account Control System Team

2023 - Present, Full-time

- Enhanced C#-based microservices to improve the performance of client-facing actions when run against a large number of users (10,000 to 30,000). Runtimes were reduced by 93%, allowing our largest clients to execute actions on their entire userbase in under 2 minutes.
- Identified performance bottlenecks in our services using **Kibana** logs and **Grafana** dashboards after observing unexplained spikes in CPU and Memory usage in the Test environment. Findings were pitched to the team, which resulted in a group effort to resolve the bottlenecks and a 60% reduction in memory leaks.
- Implemented test coverage report generation in all azure YAML pipelines to help target projects that require more unit and/or integration testing. 4 out of 9 projects were identified to be lacking the sufficient coverage of integration tests, so user stories were created to address these in the near future

Software Engineer - Product Intelligence Team

2022 - 2023, Full-time

- Developed and maintained **AWS Lambda** ETL functions to monitor product usage, capture events in **DynamoDB**, process data, and store data in **Redshift**. Designed architecture with reliability in mind, incorporating fallback strategies for failed events and enabling real-time error alerts across environments.
- Led the creation and maintenance of robust CI/CD pipelines, enabling automated building and deployment of projects.

 Utilized multi-stage deployment and rollback strategies to ensure seamless production updates without disruptions. Pipelines currently have a success rate of 96% over the last 6 months.
- Designed and implemented a user feedback feature for our flagship platform, enabling attachment of image and GIF files. Leveraged AWS Redshift for data storage, with a fail-safe mechanism for capturing failed instances in an S3 bucket for future reprocessing. Feature had a success rate of 100% over the last 6 months with no feedback messages lost.
- Created internal web applications using Angular and Flask, enabling non-technical users to track their events in Redshift
 via drop-down menus. Managed the deployment within Docker containers, leveraging Nginx as the reverse proxy for
 efficient application delivery.

City of Toronto, Ontario

 $Software\ Engineer$

2021 - 2022, Full-time

- Developed and implemented Python scripts to automate the quarterly extraction of recreation program performance metrics, transitioning away from manual SQL queries. This automation reduced human error and decreased analysis times by 90%.
- Engineered and maintained analytical visualization dashboards using Plotly, leading the project from conception to deployment. Optimized data accessibility and significantly minimized ad-hoc data requests by over 80%.
- Collaborated with city planners, managers, and directors to advocate for the integration of analytical dashboards, enhancing data-driven decision-making across departments. This initiative led to increased dashboard adoption.
- Led a project analyzing cell phone usage data with Python to monitor changes in park visitation patterns during the COVID-19 pandemic. My findings informed division directors, driving actionable insights for park maintenance improvements.

Doxim Solutions Markham, Ontario

 $Software\ Engineer$

2020, Co-op

- Developed pattern recognition software, streamlining the conversion process of legacy PowerShell scripts into concise and reusable C# components. This significantly reduced manual effort, enhanced code maintainability, and promoted codebase modernization
- Extracted, transformed, and analyzed credit union user data from internal databases using **SQL queries**. The insights derived from this analysis contributed to strategic decision-making processes.
- Spearheaded the design and implementation of a dynamic **C# data pipeline**, facilitating seamless integration with a third-party database. This initiative improved the usability, reliability, and performance of internal data flow.

EDUCATION

Western University
Ontario, Canada
Masters in Data Analytics
2019 – 2020