Chetan Kalia

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Skills

Programming: Python, JavaScript, C++, Go, Kotlin, Ruby, SQL, Matlab, Bash

Technologies: Django, React, Rails, MongoDB, Git, Docker, Kubernetes, Google Cloud, Android Studio, Bootstrap

Data Science: Numpy, scikit-learn, PySpark, Hadoop, Azure, Power BI, DataBricks, spaCy

Experience

Software Engineer   **Toronto, ON**
Autonomic   *Sep 2021 - Dec 2021*

- Developed a **Go microservice** for teams to manage production software resulting in a **30%** reduction in missed deployments
- Containerized and deployed applications to **GKE** using **Docker** and **Helm**
- Created **CI/CD pipelines** to automate software builds and deployments to **Kubernetes** clusters using **Tekton**

Data Scientist   **Toronto, ON**
Gore Mutual Insurance   *Jan 2021 - Apr 2021*

- Conducted **exploratory data analysis** on customer data to identify key churn indicators and implemented a churn prediction model using **scikit-learn**, effectively identifying high-risk customers
- Implemented **Agile** methodologies using **Jira** to iteratively develop **Power BI** dashboards enabling effective monitoring of KPIs
- Developed **ETL pipelines** in **Azure Data Factory** to streamline data migration to **Azure Data Lake** reducing migration time from days to minutes

Software Engineer   **Toronto, ON**
Mackenzie Investments   *May 2020 - Aug 2020*

- Developed an application using **Django** and **React** to efficiently manage Mackenzie's mutual funds. Reduced lookups in **MySQL** to deliver faster site loads by over **70 %**
- Created ETL pipelines in **Python** with **Pandas** and **NumPy** to transform and migrate unstructured data to on-premise storage

Software Developer   **Toronto, ON**
Bank of Montreal   *Sep 2019 - Dec 2019*

- Built a **REST API** using **Flask** available over a **Bootstrap** interface for users to upload loan documents and obtain key entities
- Developed dashboards using **Dash** to monitor requests made to BMO's loan API. Used **Dash Callbacks** to enable users to interact with controls and visualizations

Projects

glucovery ⌂   *2023*

- Researched and designed a solution to help people with Celiac Disease fulfil their nutrition requirements during recovery from gluten exposure. Built a web application that perfoms queries on a **MongoDB** database using **Python** and displays an optimized list of food recommendations using **Flutter**

Food Expiry Tracker ⌂   *2023*

- Built an Android application using **Kotlin** that tracks the expiry date of foods, recommends recipes that use foods near expiry, and discovers options to donate food. Implemented the **MVVM architecture** to enhance code maintainability

emvideo ⌂   *2022*

- Developed a full-stack web application using **Django** and **JavaScript** where users can authenticate themselves, browse videos, and upload and manage their own content

Education

Bachelor of Applied Science in Systems Design Engineering   *2018 - 2023*
University of Waterloo
3.7/4.0 GPA
Relevant Courses: Data Structures and Algorithms, Software Design Patterns and Architecture, Interface Design