Eric Chang (He/Him)

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EDUCATION

Honors Diploma of Computer Information Technology Sep 2020 - Dec 2022
British Columbia Institute of Technology, 4.0 cGPA

Coursework towards BSc Computer Science Sep 2018 - Apr 2020
University of Toronto

EXPERIENCE

Stemcell Technologies

Data Analyst Co-op Jan 2022 – Nov 2022

Technologies: JavaScript, Python, SQL, Power BI, Tableau, Excel/Sheets, Sharepoint, GCP

- Engineered an internal document management solution enabling scientists to edit Microsoft Office documents from the browser. 350+ documents were migrated during this process.
- Synthesized business intelligence reports on key performance metrics and presented data to product managers to highlight findings, and recommend changes.
- Optimized data model architecture in SQL for balanced performance and functionality of Power BI reports. Report loading time was reduced from 20 to <1 minute.
- Used VLOOKUP and Pivot Tables in Excel to find and aggregate data for product forecasts, product lifecycle management, and office space delegation across cross-functional teams.

Apryse

Software Developer - Contract Student Sep 2021 – Dec 2021

Technologies: Next.js, Firebase, JavaScript, HTML, CSS, Node.js, Jest, Circle CI, Figma

- Designed Firebase data architecture for an office reservation system (desks, floorplans, offices)
- Implemented alerts to monitor database usage, performance, and billing for cost reductions.
- Programmed administrative CRUD functions for organizing office space objects

SOFTWARE PROJECTS & HIGHLIGHTS

Vancouver Crime Exploratory Data Analysis

Technologies: Python, Tableau, Excel, Pandas, Numpy, Matplotlib, Seaborn

- Employed data cleaning techniques using Python to ensure data consistency, completeness, and to increase data reliability. The dataset consisted of 840k+ rows and 9 parameters.
- Built an analytics dashboard using Tableau for multivariate analysis between crime rates evaluated against geospatial and temporal parameters

Heart Attack ML model

Technologies: Python, sklearn, Pandas, Numpy, Matplotlib, seaborn, Machine Learning

- Built a predictive model using the K-nearest neighbors algorithm to determine the likelihood of developing coronary heart disease within 10 years.
- Performed hyper-parameter tuning using the elbow method to determine optimal clusters to ensure training data is properly divided.

SKILLS

Frameworks & Tools: Flask, Bootstrap, Kafka, Git, MongoDB, Node, Express, Firebase, .NET
Languages: Java, Python, JavaScript, HTML, CSS, Swift, Bash, Shell, SQL, DAX, R
DevOps: Kubernetes, Docker, Terraform, Jenkins, SonarQube, Ansible, AWS, GCP, Azure
Software: Tableau, PowerBI, Excel, Data Studio, SQL Server, Visio, Jupyter Notebook