FARHAN BIN FAISAL

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SUMMARY

Innovative web developer with strong expertise in JavaScript, React, and Node.js, complemented by proficiency in NoSQL (MongoDB). Demonstrated ability to design and implement scalable applications using cloud platforms (AWS & GCP), streamline deployment processes (CI/CD), and enhance user experiences through robust testing.

EDUCATION

MS, Data Science, University of British Columbia — Expected *Graduation: June 2025*
HBSc, Computer Science & Neuroscience, University of Toronto — *Graduation: June 2024*

TECHNICAL SKILLS

- **Programming:** JavaScript (React, Angular, Node), Java, Swift, HTML/CSS, C++, Python, Bash
- **Testing Tools:** Selenium, Jest, JUnit, PyTest, Mockito, Espresso
- **Databases & Cloud Tools:** MongoDB (NoSQL), MySQL, PostgreSQL, GitHub Actions, AWS, Docker, Azure

EXPERIENCE

Developer Intern — Aug 2022 – Apr 2023
Baycrest Hospital — *Toronto, ON, Canada*

- Developed interactive web-based experiment paradigms with JavaScript & NeuroBS for 3 language studies.
- Created data preprocessing pipelines using Python, Bash & C++, reducing manual workload by 50%.
- Analyzed neuroimaging datasets via pandas and scikit-learn, identifying trends between structural damage and language impairments, contributing to automated aphasia diagnostic tools.
- Streamlined healthcare administration processes by managing a NoSQL database and automating data processing tasks, reducing admin work by 30%.

Data Analyst — May 2023 – Apr 2024
University of Toronto — *Toronto, ON, Canada*

- Developed ETL pipelines in Python & SQL to clean large textual survey datasets, improving operational efficiency by 60%.
- Utilized Python and GPT-4 embedding models to encode textual responses, enabling deeper investigation into human goal-setting behaviors.
- Enhanced data quality through imputation using KNN, linear regression, and logistic regression models, ensuring more accurate analysis.
- Created data visualizations with ggplot2 and Matplotlib, to present complex analysis results.
- Fine-tuned transformer models (BERT) with PyTorch to label qualitative data with 82% accuracy.

PROJECTS

GOGO | MongoDB Express ReactJS NodeJS — May 2023- Aug 2023

- Developed a secure, real-time chat app (team of 5) connecting strangers using the MERN stack.
- Built frontend with **ReactJS**, backend with Express.js (REST APIs), and managed data storage with MongoDB **(NoSQL)**.
- Achieved 60% test coverage with **Selenium** and **Jest**, ensuring robustness for frontend feature.
- Reduced deployment times by 70% via setting up a CI/CD pipeline via GitHub Actions on **AWS EC2.**

PM2.5 Dashboard | TypeScript, ReactJS, Express, NodeJS — Jul 2024 – Aug 2024

- Developed a PM2.5 smoke particle visualization dashboard, enabling users to monitor nearby air quality in real time.
- Visualized real-time and longitudinal air quality trends with **React**, **Leaflet**, and **D3.js.**
- Created backend to ExpressJS and database to SQLite for improved flexibility and scalability.
- Deployed the lightweight backend to Azure Cloud ensuring cost efficiency and scalability.

Stock Visualizer App | MongoDB Express ReactJS NodeJS — Dec 2022 - Apr 2023

- Developed a web application using Next.js with an Express backend, allowing clients to visualize historical stock price data.
- Adhered to Atomic Design principles and AGILE methodologies to ensure maintainable code.
- Deployed the optimized backend on Render.com, ensuring a cost-effective and scalable solution.

RELEVANT COURSES

Intro to Software Engineering	Software Design and Testing	Software Systems Architecture
Intro to Machine Learning	Cloud Platforms for Data Science	Data Visualization