James (Alex) Whitman

Full-Stack Software Engineer

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Halifax, NS
Open to remote/relocation

I'm a recent graduate looking to collaborate on impactful projects to further develop my expertise in frontend, backend, machine learning, and database engineering. I'm a fast learning team player with a passion for system design and cutting edge technology.

EDUCATION & CERTIFICATIONS

Professional Machine Learning Engineer   **Jan. 2023**
Google Cloud Platform   *Online Certification Exam*

Bachelor of Science - Major in Computer Science, Minor in Medical Sciences   **Sep. 2018 — Dec. 2022**
Western University   *London, ON*

Associate Cloud Engineer   **Nov. 2022**
Google Cloud Platform   *Online Certification Exam*

International Baccalaureate Diploma Programme   **Sep. 2016 — May 2018**
Halifax Grammar School   *Halifax, NS*

SOFT SKILLS

Communication	Presentations, Public Speaking, Teamwork, "The Golden Rule", Typing Speed: 115+ wpm
Project Planning	UML Diagrams, Jira, GitHub Projects, Time Management, Agile & Critical Path Methodology

TECHNICAL SKILLS

Languages	TypeScript, JavaScript, Python, C++, C, Java, PHP, R, SQL, HTML/CSS, Shell Scripts
Frontend	React/Next.js, React Native, React Native Web, Storybook.js, Animations, CMS, ISR, WebGL, ARIA, SEO
Backend	REST, GraphQL, & gRPC APIs; Kubernetes, Load-Balancing, Networking, Message Brokers, Pub/Sub
Databases	Relational, NoSQL, Distributed, Graph, & Memory-Cached DBs; Consistency, Availability
DevOps	Docker, Turborepo, GitHub Actions, Terraform, Cloud Build, Test-Driven Development, Cypress
Data Analysis	Excel, NumPy, Pandas, SciPy, BigQuery, Dataflow, Dataproc, Regressions, Statistical Analyses, PCA
Media Creation	Photoshop, Premiere Pro, Matplotlib, Seaborn, Looker Studio, LaTeX, MarkDown, Remotion, Vercel OG
Machine Learning	TensorFlow, scikit-learn, CNNs, RNNs, GANs, Transformers, NLP, Computer Vision, Clustering, TFX/Kubeflow

WORK EXPERIENCE

Full-Stack Web Developer   **Summer 2021**
Praxes Medical Group   *Halifax, NS*

- Maintained and updated their serverless COVID testing software for public rapid testing sites and B2B employer-led testing; facilitated the reporting of 300,000+ test results to patients, as well as aggregate statistic reports to stakeholders.
- Redesigned their database scheme to allow more performant result querying and storage of additional information about tests.
- Designed and implemented a database, serverless backend, and Quasar web app for volunteer registration and cancellation.

Assistant to the Support Engineers   **Summer 2019**
SolutionInc   *Halifax, NS*

- Assembled single-board computers, automated software staging, and performed quality assurance testing, in order to allow secure media casting from user devices in some of the world's leading hotels.
- Staged wireless access points for various hotels, campgrounds, convention centers, etc., to run network gateway software.
- Applied testing and troubleshooting skills to resolve connectivity issues for clients and provide exceptional customer service.

Technology & Service Coordinator   **2017, 2018, 2020, 2022**
Race Auto Group (Family Business)   *Halifax, NS*

- Designed and implemented a rental car booking system for the dealership in 2 weeks to capitalize on a local rental car shortage.
- Responsible for keeping the company website and integrated inventory system up to date.
- Managed the service desk by creating work orders, ordering parts, resolving customer issues and allocating mechanic time.

ACTIVITIES & VOLUNTEERING

COVID Rapid Testing Pop-up Sites — Swabber	2021
Math Tutoring	2016 — 2020
Habitat for Humanity — Built latrines and stoves in rural Guatemalan communities	2017
QE2 Hospital — Dialysis Unit Friendly Visitor	2017
CISV Peace Bus — Cross-Canada volunteering and tourism road-trip	2016