James (Alex) Whitman

Full-Stack Software Developer

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Halifax, NS
Open to remote/relocation

I'm a recent graduate with expertise in developing full-stack applications, databases, and machine learning models. I'm a fast learning team player with a passion for system design and using cutting edge technology to solve problems.

EDUCATION

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

International Baccalaureate Diploma Programme **2016 - 2018**
Halifax Grammar School *Halifax, NS*

CERTIFICATIONS

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

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

SOFT SKILLS

Languages	English (fluent), French (B1), Spanish (A2)
Communication	Presentations, Public Speaking, Teamwork, Conflict Resolution, Typing Speed: 115+ wpm
Project Planning	UML Diagrams, Jira, GitHub Projects, Time Management, Agile & Critical Path Methodology, User Stories

TECHNICAL SKILLS

Languages	TypeScript, JavaScript, Python, C++, C, Java, Perl, PHP, R, SQL, HTML/CSS, Shell Scripts
Frameworks	React.js/Next.js, React Native, Solito, Angular, Vue/Quasar, Django, jQuery/VanillaJS, LAMP, Express.js
Frontend	Storybook.js, CSS Animations, 3D rendering (WebGL/Three), ARIA, SEO, TLS, WebAssembly
Backend	REST, GraphQL, & tRPC APIs; Load-Balancing, Networking, Threading, Nginx, Pub/Sub, Encryption
Databases	Relational, NoSQL, Distributed, Graph, & Key-Value Memory-Cached DBs; Consistency, Availability
DevOps	C.I./C.D. Pipelines, Docker, Kubernetes, Turborepo, Terraform, Test-Driven Development, Cypress, Jest
Data Analysis	NumPy, Pandas, SciPy, BigQuery, Dataflow, Dataproc, Regression, Classification, Statistical Analyses, PCA, Excel
Machine Learning	CNNs, RNNs, GANs, Transformers, NLP, LLMs, Computer Vision, Clustering, Tensorflow, TFX/Kubeflow
Media Creation	Photoshop, Premiere Pro, Matplotlib, Seaborn, Looker Studio, LaTeX, MarkDown, Remotion, Vercel OG

WORK EXPERIENCE

SolutionInc Ltd. **2019, 2023**
Software Developer *Halifax, NS*

- Built customer and staff portal applications for a new ISP company. Designed and implemented self-hosted high-availability Kubernetes cluster to host the web portals and services. Automated deployment to staging & production env's using Helm.
- Upgraded a legacy LAMPerl-stack network monitoring dashboard to use containers, automated testing, C.I./C.D., & more. Added a report editing feature to allow customers to customize their hotel/convention center network gateway usage reports.
- Returned in a software development position after working for a summer on the support & delivery team as a student, where I mostly worked on staging hardware with proprietary software for allowing secure in-room media casting in large hotel networks.

Praxes Medical Group **2021**
Software Developer *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.
- Upgraded Firestore database to allow more performant result querying and storage of additional information about each test.
- Designed and implemented a serverless backend, database, and Vue.js web app for volunteer registration and cancellation.

Race Auto Group **2017, 2018, 2020, 2022**
Software Developer, Technology & Service Coordinator *Halifax, NS*

- Rapidly designed and implemented a Next.js rental car booking system for the dealership to capitalize on a local rental car shortage. Later added a custom pricing calendar system, to allow dynamically setting rental rates by date range by vehicle type.
- Managed the service desk by creating work orders, ordering parts, resolving customer issues, and allocating mechanic time. Was responsible for keeping the company Wordpress website and integrated inventory system up to date.