

# James (Alex) Whitman

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Full-Stack Software Developer

Halifax, NS  
Open to remote/relocation

I'm a recent graduate with the expertise to rapidly develop full-stack applications, databases, and machine learning models, while also possessing the social skills to collaborate with a team and determine complex requirements with non-technical stakeholders.

## EDUCATION

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| <b>Bachelor of Science - Major in Computer Science, Minor in Medical Sciences</b><br><i>Western University</i> | <b>2018 - 2022</b><br><i>London, ON</i>  |
| <b>International Baccalaureate Diploma Programme</b><br><i>Halifax Grammar School</i>                          | <b>2016 - 2018</b><br><i>Halifax, NS</i> |

## CERTIFICATIONS

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|---|--|
| <b>Professional Machine Learning Engineer</b><br><i>Google Cloud Platform</i> | <b>Jan. 2023</b><br><i>Online Certification Exam</i> |
| <b>Associate Cloud Engineer</b><br><i>Google Cloud Platform</i>               | <b>Nov. 2022</b><br><i>Online Certification Exam</i> |

## SOFT SKILLS

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

## TECHNICAL SKILLS

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

## WORK EXPERIENCE

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|--|---|
| <b>SolutionInc Ltd.</b><br><i>Software Developer</i>   | <b>2019, 2023</b><br><i>Halifax, NS</i>             |
| <ul style="list-style-type: none"><li>Returned in a software development position after working for a summer on the support &amp; delivery team as a student.</li><li>Built containerized customer and staff portal apps with Angular, Next.js, and Express.js for a new ISP company. Designed and implemented self-hosted high-availability Kubernetes cluster as hosting solution. Deployed from a C.I./C.D. pipeline using Helm.</li><li>Containerized and upgraded a LAMP-stack network monitoring dashboard. Set up C.I./C.D. with Cypress E2E testing.</li></ul>   |   |
| <b>Praxes Medical Group</b><br><i>Software Developer</i>   | <b>2021</b><br><i>Halifax, NS</i>                   |
| <ul style="list-style-type: none"><li>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.</li><li>Upgraded Firestore database to allow more performant result querying and storage of additional information about each test.</li><li>Designed and implemented a serverless backend, database, and Vue.js web app for volunteer registration and cancellation.</li></ul> |   |
| <b>Race Auto Group</b><br><i>Software Developer, Technology &amp; Service Coordinator</i>  | <b>2017, 2018, 2020, 2022</b><br><i>Halifax, NS</i> |
| <ul style="list-style-type: none"><li>Designed and implemented a Next.js rental car booking system for the dealership in 2 weeks to capitalize on a local rental car shortage. Later added a custom pricing calendar system, to allow dynamically setting rental rates by date range.</li><li>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.</li></ul>                                  |   |