

# James (Alex) Whitman

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Full-Stack Software Engineer

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

<b>Professional Machine Learning Engineer</b> <i>Google Cloud Platform</i>	<b>Jan. 2023</b> <i>Online Certification Exam</i>
<b>Bachelor of Science - Major in Computer Science, Minor in Medical Sciences</b> <i>Western University</i>	<b>Sep. 2018 — Dec. 2022</b> <i>London, ON</i>
<b>Associate Cloud Engineer</b> <i>Google Cloud Platform</i>	<b>Nov. 2022</b> <i>Online Certification Exam</i>
<b>International Baccalaureate Diploma Programme</b> <i>Halifax Grammar School</i>	<b>Sep. 2016 — May 2018</b> <i>Halifax, NS</i>

## SOFT SKILLS

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

## TECHNICAL SKILLS

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

## WORK EXPERIENCE

<b>Full-Stack Web Developer</b> <i>Praxes Medical Group</i>	<b>Summer 2021</b> <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>Redesigned their database scheme to allow more performant result querying and storage of additional information about tests.</li><li>Designed and implemented a database, serverless backend, and Quasar web app for volunteer registration and cancellation.</li></ul>	
<b>Assistant to the Support Engineers</b> <i>SolutionInc</i>	<b>Summer 2019</b> <i>Halifax, NS</i>
<ul style="list-style-type: none"><li>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.</li><li>Staged wireless access points for various hotels, campgrounds, convention centers, etc., to run network gateway software.</li><li>Applied testing and troubleshooting skills to resolve connectivity issues for clients and provide exceptional customer service.</li></ul>	
<b>Technology &amp; Service Coordinator</b> <i>Race Auto Group (Family Business)</i>	<b>2017, 2018, 2020, 2022</b> <i>Halifax, NS</i>
<ul style="list-style-type: none"><li>Designed and implemented a rental car booking system for the dealership in 2 weeks to capitalize on a local rental car shortage.</li><li>Responsible for keeping the company website and integrated inventory system up to date.</li><li>Managed the service desk by creating work orders, ordering parts, resolving customer issues and allocating mechanic time.</li></ul>	

## 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