

Alexander (Sasha) Aleshchenko

education

mcgill university 3.5gpa
ba software engineering
2019-2023

technical skills

java typescript rust nextjs argocd reactjs kotlin graphql
springboot quarkus java c++ ros python pytorch mongodb aws
kubernetes nginx grpc reactivex postgres terraform openshift

contact

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BC Attorney General's Ministry

Integrations Lead Developer

Oct 2023 - Present, Vancouver, BC, Canada

- 3 major software projects: BCPARIS (manager, team of 6), JADE DEMS (automations lead), Operationalizing OpenShift (developer advocate, technical lead)
- Orchestrating needs of government, consultant, and police stakeholders to define guidelines and processes for **cloud migration of legacy infrastructure** across the BC justice sector OpenShift, AWS, Postgres, ArgoCD, Quarkus, Sysdig, Splunk

Flojoy

Project Lead - Robotics & Flojoy Runtime

Jul 2023 - Present, Vancouver, BC, Canada

- Collaborated on product development, fundraising, growth hacking, and technical leadership
- Designed the **Flojoy Reactive Runtime**, which enables **seamless ROS, embedded device, and cloud integrations**, greatly accelerating robotics and industrial automation processes for customers

Zeroth Technologies

Co-founder, CTO

May 2023 - Present, Vancouver, BC, Canada

- Led projects: **semantic search** for a Quebec lawfirm, **transcription and summarization** for a medical software startup, **ROS integrations** for a major medical robot manufacturer.

Meta Platforms Inc.

Software Engineer Intern, WhatsApp

Jun 2022 - Aug 2022, Menlo Park, CA, USA

- Designed and implemented a **development & testing framework** for WhatsApp Business Account creation, resulting in a **15% increase of developer velocity**. Hack (PHP), Flow (JavaScript), React
- **Completed assigned project 1.5 months ahead of schedule**, using remaining **time to pitch and develop new product features** across WhatsApp and Meta, including account inspection tools and work on the new Meta Quest.

Amazon

Software Engineer Intern, AWS Simple Workflow

Jan 2022 - May 2022, Vancouver, BC, Canada

- Created the **Workflow Executions tool**, which enables customers to self-serve troubleshooting tasks which previously required support staff intervention.
- Built a console for **aggregation, filtering, searching**, and analysis of **billions of workflows**, made easy to use through gathering customer feedback and collaborating with UX designers. Java, TypeScript, JUnit, Cypress, React-Query and React.JS
- Actively participated in **Agile**, taking initiative in sprint planning, task estimation, and retrospectives.

McGill University

Teaching Assistant (Algorithm & Data Structures)

Sep 2020 - May 2023, Montréal, QC, Canada

- Won **SOCS TA Award** as McGill's youngest teaching assistant, for creating **animated videos**, **designing innovative assignments**, and **engaging tutorials**.
- **Taught over 5000 students**, running the hands-on coding portion of the course for 6 semesters.

bcsculpture.com

Project Lead (Photogrammetry, Design, Webdev)

Jun 2020 - Present, Vancouver, BC, Canada

- Worked with artist Miran Elbakyan to digitize his works in 3d, and present them on a state of the art website.
- Created a **custom photogrammetry pipeline**, with compression that **reduces the model size by ~500x vs RealityKit** with almost no loss in perceptible detail, all in a process integrated with Sanity CMS for code-free editing Swift, RealityKit, Python, Blender
- Built an **AR sculpture viewer** with **reactive animations** driven by user interaction RXjs, framer motion
- Using server side rendering, partial hydration, CDN, progressive enhancement, delivered a **perfect lighthouse score** while serving a heavily animated website with 3d content. NextJS, React, Sanity CMS

Rocscience

Software Engineer Intern

May 2021 - Aug 2021, Toronto, ON, Canada

- Spearheaded the development of Report Generator, an application that **transforms simulation outputs into polished engineering reports** with customizable styles and branding.
- Successfully **pitched the product to the CEO**, leveraging market research and customer feedback.
- Collaborated to integrate the Report Generator into existing applications such as Slide2, defining clear roadmaps and timelines.

[See my latest projects at thebigsasha.com](https://thebigsasha.com)