Alexander Cooper

Backend Engineer

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Languages	Databases	Tools/Frameworks		Platforms
Javascript/Typescript	MySQL/PostgreSQL	Linux/Bash	NodeJS	AWS
Python	Redis	Git	Serverless Architecture	GCP
Java	DynamoDB	Terraform	React	
	Snowflake	Kubernetes	Playwright/Selenium	
		Docker	OpenAPI	

Relevant Work Experience

Software Engineer at Replicant (Developer Experience)
Toronto | 2024-2025

- Designed and implemented custom CI/CD pipelines for multiple teams across the engineering organization. Reduced lead time to change from days to hours. Utilized tools such as Argo CD, kubernetes and Gitlab CI/CD to introduce canarying to deployment pipelines.
- Deployed and integrated Langfuse, an open source LLM engineering platform to support LLM development, monitoring and deployment.
- Enhanced developer efficiency by designing a reusable and portable pipeline utilities library, cutting redundant configuration time and improving maintainability.
- Proactively researched and experimented with emerging frameworks, DevOps tools, and industry best practices, driving continuous improvements and advocating for modern engineering solutions.

Software Engineer at Flexport (Via sale of Shopify Logistics Division)
Toronto | 2023

- Architected and implemented a custom canary deployment system using serverless architecture on AWS, enhancing the team's ability to roll out updates with increased confidence and minimise risks. Involved collaboration with the organisation's platform team on changes to our core CI/CD infrastructure.
- Spearheaded the development of custom continuous integration testing tools, optimising the team's testing workflow.

Software Engineer at Shopify (Via Acquisition of Deliverr)
Toronto | 2022 - 2023

- Conducted comprehensive stress testing of team services to ensure scalability and performance under increased Black Friday traffic.
- Collaborated on the integration with Shopify's custom Warehouse Management System API, orchestrating the transition to an event-driven architecture.
- Engineered and deployed a customised Cognito based authentication system crafted to meet the team's distinct security requirements. Later adopted as a best practice org wide.
- Achieved promotion due to strong performance.

Software Engineer at Deliverr
Toronto | 2021 - 2022

- Collaborated on the development of a common API for multiple Warehouse Management Systems. Adhered to RESTful principles and industry best practices.
- Pioneered a repository of scripts automating common on-call tasks, significantly reducing support ticket volume
- Facilitated knowledge transfer and onboarding through well-structured and detailed documentation, supporting the team's efficiency and adaptability during periods of growth.

Junior Machine Learning Engineer at Yaar
Toronto | 2021

- Worked on a fast paced, agile and small team at a startup developing an AI personal assistant.
- Delivered our app's integration with Uber. Involved modeling, training, testing and deployment of various ML models.
- Stayed up to date and implemented current research in deep learning, NLP and vision.

Education

Bachelors of Science, Physics. University of Waterloo
2020

- Relevant Courses: Machine Learning in the Physical Sciences, Computational Physics I/II
- Varsity Track and Field Athlete