

# David Dietrich

Software Developer  
Waterloo, Ontario

March 2023

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## Objective

Self-directed learner seeking a Senior Software Developer position in a fast-paced and challenging environment. Thrives in ambiguity. Proven tech lead. 10+ years of experience. Strong collaboration skills and several years of experience mentoring junior developers.

## Work Experience

### Google

*Software Engineer - Google Cloud*

USA/Japan/Canada

*Jan 2022 - Current*

- Designed and built Terraform and Kubernetes configurations, release pipeline, and probes for single-tenant GKE clusters.
- Drove decision to migrate Cloud source-control product from GCP VMs to GKE, reducing the work required for the eventual public release by 3+ eng months.

*Software Engineer - Android Platform*

*Mar 2020 - Jan 2022*

- Created new configuration system and migrated existing test definitions, resulting in an over 10x reduction in test definition LOC.
- Designed and built performance testing suite for Android platform modules, catching performance regressions much earlier in the development lifecycle.

*Software Engineer, Tools and Infrastructure - Android Google Maps*

*Jan 2014 - Mar 2020*

- Lead team tasked with improving developer velocity. We significantly improved test flakiness and test performance, reducing wall time of code submissions from 45 minutes to 25 minutes. Resulting in 6+ eng-months of waiting time saved per year.
- Refactored build configurations for Android Google Maps to improve readability and build performance, reducing average wall time of incremental builds by approximately 5 minutes.
- Designed and built conformance test infrastructure and test suite for Android Auto. This suite is shipped to OEMs for verification of their Android Auto implementation in vehicles.

### University of Waterloo

*Research Assistant: Formal Methods Lab*

Waterloo, ON

*Sept 2011 - May 2013*

- Created and extended modelling languages and model verification tooling in an automotive context.
- Performed research presentations for industrial partners and visiting researchers.

### University of Alberta

*Web Developer*

Edmonton, AB

*May 2011 - Sept 2011*

- Created web-based info system for storing, editing, and searching faculty profiles at the University of Alberta using PHP, HTML, and JS.

### Energy Navigator Inc.

*Junior Software Developer*

Calgary, AB

*May 2009 - Aug 2010*

- Code and tooling for AFE Navigator, an expenditure tracking platform for energy companies.
- Primarily worked in C#. Additionally, some VB.NET, Java, and PL/SQL.

## Education

### University of Waterloo

Waterloo, ON

*M.Math Computer Science*

*2011 - 2013*

- Thesis Topic: A Mode-Based Behaviour Pattern for Feature Requirements, and a Generic Feature Interface
- GPA: **89/100**
- List out publications if they fit...

### University of Alberta

Edmonton, AB

*B.Sc. Computer Science*

*2006 - 2011*

- GPA: **3.6/4.0**

## Technical Skills

**Frameworks:** Bazel, Kubernetes, GCP, Terraform, Git, Jenkins, Cloud Build, Protobuf, Linux, Git

**Languages:** Python, Java, GCL, Bash

*References available upon request*