

David Dietrich

Software Developer
Waterloo, Ontario

March 2023

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github.com/godares79

Objective

Experienced software developer seeking position in a fast-paced and challenging environment. Thrives in ambiguity. Proven tech lead. Significant experience in both Eng and Eng Productivity roles. Strong technical ability and systems design experience. (Maybe 1 more sentence).

Work Experience

Google

USA/Japan/Canada

Software Engineer - Google Cloud

Jan 2022 - Apr 2023

- 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 under 20 minutes. Given 300+ active contributors, this resulted in multiple eng-years worth of savings.
- 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 suite and infrastructure for Android Auto which was shipped to OEMs for verification of their implementation in vehicles.

University of Waterloo

Waterloo, ON

Research Assistant: Formal Methods Lab

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

Edmonton, AB

Web Developer

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.

Calgary, AB

Junior Software Developer

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

M.Math Computer Science

Waterloo, ON

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

B.Sc. Computer Science

Edmonton, AB

2006 - 2011

- GPA: **3.6/4.0**

Technical Skills

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

Languages: Python, Java, GCL, Go

References available upon request