David Dietrich

Software Developer
Waterloo, Ontario

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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 abilities 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 probers for Multi-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 several 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.
- Refactored build configurations for Android Google Maps to improve readability and build performance, reducing 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   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, GKE, GCP, Terraform, Git, Jenkins, Cloud Build
Languages: Python, Java, GCL, Go

References available upon request