David Dietrich

Software Developer
Waterloo, Ontario

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github.com/godares79

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   USA/Japan/Canada
Software Engineer - Google Cloud   *Jan 2022 - Current*

- Designed and built Terraform and Kubernetes configurations, release pipeline, and probers 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   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, Kubernetes, GCP, Terraform, Git, Jenkins, Cloud Build, Protobuf, Puppet
Languages: Python, Java, GCL, Go

References available upon request