

GEOFF HOLDEN

FULL STACK SOFTWARE DEVELOPER

geoff@geoffholden.com

St. John's, NL, Canada
(709) 727-0379

Summary

I'm a software developer with 10+ years of experience designing and writing code covering large scale object oriented designs all the way down to tiny microcontrollers.

Skills

Development

I design and develop software for platforms of all sizes, including microcontrollers, embedded Linux, mobile devices, desktop computers, and distributed systems.

Operations

My background in system administration and operations gives me valuable perspectives on designing for deployment, configuration management and scalability.

Problem Solving

My natural tendency for problem solving and debugging assists with tracking down and rectifying issues in codebases and environments alike.

Technical

C / C++

Java

Ruby (on Rails)

Go

XHTML

CSS

JavaScript

Git / CVS / Subversion

SQL / MySQL

Microcontrollers

Linux

Android

Experience

SEAformatics Group, Memorial University of Newfoundland Research and Project Engineer

St. John's, NL
2010–Present

- Design and development of a power-efficient stack of microcontrollers to perform data acquisition, communications, and battery charging in a subsea environment.
- Development of a web-based data visualization application in Ruby on Rails.
- Deployment and testing of sub-sea acoustic modems.
- Software development on embedded Linux, Arduino, and Ruby on Rails.
- Investigation of sub-sea networking algorithms.
- Circuit and PCB design and fabrication.

Progress Software Software Engineer

St. John's, NL
2007–2009

- Created a Requirement Tracability Matrix web application using Ruby on Rails
- Wrote a set of user interface guidelines to help avoid common mistakes, and increase inter-product consistency
- Fixed bugs and created demos for Apache ActiveMQ
- Bug fixing and feature development for Artix Data Services
- Produced and managed patches for the Artix product
- Bug fixing and new feature development for SonicMQ

Google Inc. Site Reliability Engineer

Mountain View,
CA
2006–2007

- Automation of tasks through the development of scripts and administration tools.
- Configuration of system and network parameters.
- Monitoring of system stability and performance.
- Ensuring 24x7 operation of cluster.
- Comprehensive documentation of procedures.

Verafin Inc.
System Architect

St. John's, NL
2004–2005

- Software design and development.
 - Researching and implementing new technology.
 - Responsible for the architecture and design of the technical environments (servers, storage, database, middleware, software, network and desktop) for the various developed and integrated applications.
 - Responsible for the management of the network, servers, and workstations.
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Education

Bachelor of Engineering in Computer Engineering
Memorial University of Newfoundland

St. John's, NL
1998–2004

Memorial's computer engineering program covers a wide breath of topics, such as software development, analog and digital circuits, microprocessors, signal processing, telecommunications, and instrumentation and controls. It is also a co-operative education program that included six separate four month work terms in the industry.

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