

Robert William Hogg

Software Engineer

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Summary of Qualifications

- ▶ Developed and maintained enterprise-class software in Java, HTML/CSS/JavaScript, Python, and PHP, following agile methodologies.
- ▶ Worked as Site Reliability Engineer to detect, diagnose, and remediate customer application issues
- ▶ Led development of customer service portal project interfacing with product management, QA, and developers
- ▶ Performed variety of roles within product engineering to create and ship high-quality software on schedule: development, DevOps, and automated and manual QA


Professional Experience

Okta

 Senior Software Engineer, September 27, 2021 - March 18, 2022

- ▶ Developed sophisticated delegated role administration system with Java, Spring, and React/Redux to support least privilege


BlueCat Networks

 Software Engineer II, Nov 4, 2019 - July 23, 2021

- ▶ Wrote infrastructure-as-code to migrate large microservice-based application from CloudFormation to Terraform
- ▶ Maintained microservices and AWS Lambda functions written in Java, Python, and Node.js for enterprise-class DNS system, improving reliability, testability, and observability and adding new features.
- ▶ Worked as Site Reliability Engineer to detect and diagnose problems in customer applications and infrastructure
- ▶ Wrote new test harness for black-box testing

SugarCRM

 Senior Software Engineer, Sep 2017 - Sep 6, 2019

 Software Engineer, Sep 2016 - Sep 2017

Software Engineer Intern, Jan 2015 - Apr 2016

- ▶ Led development of customer service portal project
- ▶ Converted legacy ECMAScript 5.1 JavaScript library to modern ES6+ using Webpack and Babel and simultaneously documented API for partner and developer use
- ▶ Developed sophisticated user interface components with Backbone.js and Handlebars.js
- ▶ Initiated upgrade of core JavaScript libraries (jQuery, Underscore, Handlebars.js) to remediate security vulnerabilities while retaining backwards compatibility with existing code
- ▶ Created proof-of-concept for analytics integration and supported cloud rollout of final version
- ▶ Wrote automated tests across all layers of the testing pyramid using frameworks like Karma/Jasmine, PHPUnit, and Selenium. Developed Thorn, a custom open source REST API testing framework
- ▶ Ensured compatibility across different web browsers, mobile devices, databases (MySQL, Oracle, DB2, SQL Server), and our cloud environment (AWS)

Education

University of Waterloo

 Bachelor of Computer Science Degree, Honours Computer Science, 2011-2016

Open-Source and Side Projects

Linuxbrew Maintainer, July 2016 - October 2017

- ▶ Maintained package-management system written in Ruby, with a focus on porting packages from Homebrew (for macOS) to Linuxbrew (for Linux).
- ▶ Performed technical support, issue triage, code review, and CI pipeline maintenance.

Security Researcher

- ▶ Searched for and responsibly disclosed XSS issues in a variety of web-based software projects, including [gitbucket](#), [Kallithea](#), [Gollum](#), and [Apache Allura](#), as well as several JavaScript libraries.

Game Developer

- ▶ Wrote [What The Hex?](#), a puzzle game using C#, for Android and desktop platforms.

References available upon request