RYAN WILLOUGHBY
SENIOR SOFTWARE ENGINEER

CONTACT

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EXPERTISE

Java (Android, Spring Boot)
JavaScript (front-end and server-side Node.js)
Ruby on Rails
Full Stack Web
AWS Infrastructure
Serverless
Docker
Test-Driven Development
Customer Support
Community Engagement

EDUCATION

Bachelor of Science
Physics and Computer Science (combined)
University of Victoria 2007
Internships:
CounterPath Solutions
BC Cancer Agency
Axys Technologies

JAN 2020 - PRESENT | VACASA

SENIOR SOFTWARE ENGINEER – FINANCE ENGINEERING
As a Senior Software Engineer in the Finance Engineering team, I wrote Python microservices on running on AWS Lambda built on Infrastructure as Code:

- **Python, PHP,** Terraform, Serverless, Docker
- **AWS, Lambda,** CloudFormation, API Gateway, IAM, CLI
- Integration with 3rd-party payment services like Ingenico, Cybersource
- **Test-Driven Development**: Unit, Integration, and End-to-End testing

2011 – 2019 | ADOBE SYSTEMS

LEAD FULL STACK ENGINEER – ADOBE I/O
As a Lead Full Stack Engineer on Adobe's Developer API Portal, I primarily wrote Java code, however my responsibilities spanned the full technology stack:

- **Java Spring Boot** back-end server application
- **Angular.js** front-end web application
- **AWS** Infrastructure: EC2, RDS, CloudWatch
- **Monitoring** systems: New Relic, Splunk
- **REST API** Development
- Promotion to Senior Computer Scientist I
- Maintained "4 nines" server uptime (99.99% uptime)
- Mentoring, community engagement

SOFTWARE ENGINEER – ADOBE PHONEGAP BUILD
As a Lead Full Stack Engineer on cloud service for compiling cross-platform mobile applications from web technologies, I wrote code in Ruby and JavaScript.

- **Ruby on Rails** server application
- **Client-side JavaScript** web application (backbone.js, underscore.js, JQuery)
- **Node.js** server side JavaScript for application build scripting
- **AWS** Infrastructure management: EC2, SQS, RDS, Auto Scaling, and more
- **Phonegap / Apache Cordova** plugin development (iOS/Objective-C, Android/Java)
- **REST API** and Oauth implementation
- Extensive community engagement through support forums and StackOverflow
- Teaching Phonegap workshops worldwide

2007 – 2011 | NITOBI SOFTWARE

Full stack engineering focused on client projects, primarily web and mobile, ranging in length from weeks to several months.

- Client-side web application development in JavaScript, HTML and CSS
- Broad spectrum of experience in languages including Java, C++, PHP, Node.js, and more
- Founding contributor to the open source Apache Cordova JavaScript framework
- Key Engineer on Nitobi's patented Phonegap product, ultimately acquired by Adobe