JOHN RICKERD
Senior full stack and mobile engineer. [pdf]

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SKILLS

Web	JavaScript jQuery Angular
Mobile	Android Gradle RxAndroid Retrofit Dagger/Butterknife iOS Objective-C Cocoapods Restangular
Frameworks	Django Spring Boot ASP.NET MVC Node
Languages	Python PHP Java JavaScript C# Objective-C
Database	PostgreSQL MySQL SqlServer
Other	Git Gradle Maven RabbitMQ NServiceBus AWS Terraform Kubernetes Docker ANTLR

EMPLOYMENT

Senior Software Engineer, Bodybuilding.com
Jul 2018 — Present

Senior Software Engineer supporting ECommerce fulfillment platform and third party integration.

- **C#/NServiceBus:** Developed and maintained NServiceBus C# handlers that formed the core of the fulfillment platform.
- **Spring Boot:** Migrated NServiceBus handlers to Spring Boot microservices running in AWS Kubernetes (EKS).
- **Node.js:** Maintained node apps running in ECS and architected a migration path to Spring Boot.
- **AWS:** Developed and administered AWS infrastructure using Terraform.
- **Python:** Supported legacy Python AWS Lambda services and wrote a lot of scripts for arbitrary tasks.
- **Elasticsearch/Kibana:** Maintained es cluster, built kibana dashboards for business users.
- **ANTLR:** Built Slack bot with ANTLR and Spring Boot for infrastructure management.
- **Agile:** Worked with stakeholders and project managers to plan development. Used Jira for sprint planning.

Senior Software Engineer, Declara
Jan 2014 — Present

Worked on all platform components - mobile (iOS/Android), backend (Django, Spring Boot) and frontend (Angular/2).

- **Xamarin:** Prototyped an Android app using the Xamarin framework (C#/Mono).
- **Cordova:** Integrated Android and iOS push notifications into a Cordova client wrapper app.
- **Android:** Used Retrofit and RxAndroid to integrate with REST backend. Used Dagger and Butterknife to streamline Activity development.
- **iOS:** Supported iOS REST backend integration. Developed and maintained iOS app.
- **Python:** Built backend components and implemented services using Django.
- **Spring Boot:** Integrated backend with Spring Boot. Coordinated services with Kafka and Rabbit.
- **RabbitMQ:** Built chat and user presence using Websockets/STOMP and Rabbit; integrated with the mobile platforms.
- **Angular:** Built and maintained Angular/2 clients.
- **Node.js:** Maintained node.js admin service.
- **Consultant Work:** Assisted with updates and enhancements after joining Bodybuilding.com.

Director of Technology, Behavior Imaging
Jan 2012 — Jan 2014

Led design, development, documentation and administration of assessment platforms. Managed outsourced development team.

- **Assessment View** is a platform for administering alternative assessments for K-12 students. Initially, it was built in PHP using the Zend Framework and a Flash frontend. I worked with a remote team to redesign and build the second version using Symfony2 and ExtJS. I also built and maintained the AWS host infrastructure. While the v2 development was underway, I supported version 1.
- **Behavior Connect** is a platform for remotely diagnosing Autism, based on the Assessment View codebase. I oversaw design and development of version 2, including merging AssessmentView functionality.
- **NODA:** NODA was a research project conducted with Georgia Tech and SARRC. An iOS app was developed to allow caregivers to record and upload video of patient behaviors for clinician analysis. The video was tagged with DSM IV generated tags to quantify diagnostics.
- **iOS:** Wrote specifications and managed development of specialized versions of Behavior Connect, including custom iOS apps used for video data collection.

Software Engineer, Blackfin/Xtreme Consulting
May 2006 — Jan 2012

Consulting Software Engineer

- **Idaho Dept of Labor:** Maintained and upgraded Idaho Department of Labor Unemployment Insurance VB.NET fraud tracking web application.
- **Microsoft:** Developed ASP.NET MVC application to generate and validate software loan offers. The financial rules were highly dynamic and complex. I implemented a simple DSL to translate textual rules (stored in the DB) to C# Expressions, which were bound to client-side validators. I also implemented a simple ANTLR parser to assist with testing.
- **Microsoft/ProClarity:** Part of team assisting with Delphi legacy support after Microsoft acquired ProClarity. My focus was localization.
- **Idaho Department of Education:** Longitudinal Data System – worked on ASP.NET MVC user applications, Schoolnet data integration and general reporting.
- **Healthwise:** Consulted as VSTO expert on Excel-based data entry application to simplify medical diagnosis rule entry.

- **Boise Cascade:** Built an Excel app using VBA for users to generate required material estimates based on structure layout. I also developed a desktop app that parsed lumber mill log data and generated business metrics using Excel pivot tables.
- **Idaho Dept of Lands:** Built timber sale tracking app using Windows Workflow Foundation and ASP.NET.
- **Drupal:** Developed a number of Drupal sites; notable instances include Craneweb which allowed users to buy, sell and lease cranes. The Farmhouse Collection was a furniture site accessible by designers.

EDUCATION

BS, **Boise State University**
Computer Science

BS, **Boise State University**
Math

BA, **University of Idaho**
Classical Languages.