Ryan Newman

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Technical Skills

Core Languages: Java, C#, C++, C, SQL
SKDs/Frameworks/Tools: J2EE, Swing, Hibernate, AWS, Maven, Jenkins, Android SDK, Google Maps API
Experience: OOP programming, design patterns, RESTful, data structures, UI development, Git, TFS, Jira, Confluence

Work Experience

Software Engineer, Illumina, San Diego CA   **May 2016 – Present**
- Work on CLIA compliant DNA Extraction system using MVC, J2EE, Junit, Maven, T-SQL, Swing, React/Javascript, and Glassfish
- Configure automated Jenkins builds
- Implemented micro service to check for DNA identity matches based off of 700 SNPs
- Develop REST endpoints to interact with Hamilton robots
- Developed hybrid DNA extraction workflow and REST endpoints for Tecan and Hamilton robots
- Developed UDP based transfer windows service and REST API for transferring files from US and Singapore into China using AWS and C#.NET transferring 6 TB worth of data per month through China firewall
- Developed direct delivery microservice and RESTful API endpoints for beadchip DMAP files straight to customers transferring upto 1 TB of data per week using AWS serverless stack (Lambda, S3, SNS, Cloudwatch), .NET Standard, and .NET Core
- Automated testing for web based systems using Ranorex and C#

Android Developer, Orange Coast Title, San Diego CA   **August 2015 – May 2016**
- Lead developer on the full suite of Android applications for Orange Coast Title and family companies
- Develop a web walking farm using Javascript, HTML, CSS, Google Maps v3, and SQL
- Wrote JSON web APIs to be used for both the company's Android and iPhone applications using VB

Application Development Intern, PEMCO Insurance, Seattle WA   **Summer 2014**
- Redesigned company's website, which can be seen at www.pemco.com
- Wrote backend modules in ASP.NET, C#, and VBA
- Wrote automated scripts to maintain the integrity of the companies database entries

Personal Projects
- **OCT Mobile** (Sept 2015 – May 2016) – Android application for Orange Coast Title. Developed using RESTful API's, JSON, and the Android SDK. *Java, Android SDK, Google Maps Android API*
- **Voting Machine Simulator** (February 2016 – March 2016) – An open sourced Android application to simulate the 2016 election in an electronic environment.. *Java, Android SDK*
- **Boxer App: Pacific University Mobile Application** (Sept 2014 - April 2015) – Android application, designed and implemented from scratch for students of Pacific University. *Java, Android SDK*
- **Linux Kernel Commands** (April 2014) – Wrote custom kernel commands for an Arch Linux virtual machine. *C*
- **Bird Hunter** (January 2014) – An Android game that is similar to the class game Duck Hunt. Written using a virtual joystick and object oriented inheritance. *Java, Android SDK*

Certifications

- Agile Scrum Alliance ScrumMaster certification

Education

Pacific University – Forest Grove, OR
Bachelors of Science in Applied Science, minors Computer Science and Mathematics