

Skills

Programming Languages

- C++
- Java
- Ruby
- C#

Database

- Relational (SQL-Based)
- Dynamo DB

Web Development and Frameworks

- HTML, CSS, JavaScript
- Bootstrap
- JQuery & JQuery UI
- AngularJS
- Servlet & JSP
- Spring MVC
- PHP
- Jersey REST API Service

Other

- Entity Framework
- MFC
- Git
- Bash
- R
- Google Maps API
- ArcGIS
- Android SDK

Work Experience

2017.01 – Now
Bellevue, WA

Software Developer Engineer – Amazon.Com Services Inc.

- **Infrastructure Setup Automation:** Created a Ruby-based toolset to automate the excessive human effort on infrastructure setup process for a product to be launched in a new AWS region.
 - Created infrastructure setup automation Ruby toolset, which significantly reduced 85% infrastructure setup time and human effort for a single region.
 - Created a code generator script and a validation script, which reduced 30% of the project development timespan.
- **GDPR compliance:** Co-designed and led development to help our product become GDPR compliant.
 - Finalized project design and led the development.
 - Created scheduled task executors and APIs in Java to delete data for deregistered customers.
 - Helped product to become GDPR compliant and prevented lawsuits, which could have lead to reputation loss and catastrophic financial loss.
- **Customization Automation for Customers:** Implemented asynchronous workflow to automate customer's customized onboarding requests, which used to span over multiple weeks.
 - Reviewed system design and metrics dashboarding with members from multiple teams.
 - Utilized Java and AWS SDK to implement asynchronous signaler and task executors.
 - Designed and created API interface adapters and data model converters.
 - Helped other teams to achieve infrastructure setup automation.
- **Service Reliability and Operational Excellence:** Helped team achieve reliability and operational excellence goals and keep up to date with AWS security requirements.
 - Improved documentation and diagrams of system infrastructure to newer members.
 - Created automation scripts to speed up log scanning and metrics dashboarding process.
 - Participated in multiple internal security-update campaigns to improve system security.
 - Fixed bugs with our C++ based client, and our Java based web services.

2016.06 – 2016.09
Pittsburgh, PA

ASP.NET Software Engineer Internship – Zap Solutions Inc.

- **Website development:** Based on customer feedback and feature requirements, updated customer websites.
 - Provided UI updates by updating the HTML code and ASP.NET code, plus updated the Entity Framework and SQL query scripts which serves data.
 - Improved SQL scripts to achieve better efficiency and responsiveness.

Education

2014.09 – 2016.04
Pittsburgh, PA

Master of Science – University of Pittsburgh

Major: Information Science

- Studied computer science & technology, plus human perception and mobile GIS.
- Multiple projects such as:
 - Online bookstore with collaborative filtering recommendation and live chat with customer service.
 - Online resume builder, format converter and social system.
 - Distributed database query API, which is capable of connecting multiple types of databases.

2010.09 – 2014.06
Wuhan, Hubei
China

Bachelor of Engineering – China University of Geosciences

Major: Geographic Information System (GIS).

- Studied computer science basics, C++, compile language and processors, computer graphics, software engineering, GIS, 2D Graphics design and webpage design.
- Multiple interesting projects such as:
 - GIS prototype with vector database map layer management (display, overlay, pan, and zooming).
 - 3D digital terrain mobile viewer which can display 3D terrain on mobile phones.