**EDUCATION**

Oregon, OR Oregon State University Expected Graduation – August 2021

* B.S. in Computer Science, *Electrical Engineering and Computer Science Department*
  + Class Standing: Junior; Part-time

Seattle, WA University of Washington Graduated - March 2018

* B.A. in Geographic Information Systems (GIS), *Geography Department*
* Certificate in Database Management, 2015

**EMPLOYMENT**

Seattle, WA City of Seattle, Department Information Technology March 2017-Present

* Software Developer (GIS Applications Team)
  + Design, develop **ASP.NET Web Applications** with **Unit Testing** to support city wide GIS.
  + **Microsoft Dynamics**, **ESRI ArcGIS Desktop Suite**, **ArcGIS Portal**
  + **ETL Processes**: Design, implementation, and automation of data transfer and analysis for usability and efficiency for millions of records of public utility data.

Bellevue, WA Concur Technologies, Inc. June 2016 – August 2016

* Software Developer Engineer in Test Intern (DevOps - Expense Middle Tier)
  + **CI Pipeline**, **ELK Stack** data collection and visualization, and implementation of Yelp’s **ElastAlert**.

Seattle, WA Ram Restaurant and Brewery May 2015 – Present

* Bar Server
  + Quality Customer Service, Quick Problem Solving, Time Management, Stress Management, Endurance

**TECHNICAL EXPERIENCE**

* **ASP.NET MVC Apps**: Design, development, and support of Dashboards, Web Maps, and Information Tools using the ASP.NET MVC stack.
* **Unit Testing**: Design test cases that challenge edge cases, implement in unit tests, and look to trigger expected exceptions. C#, JSON.
* **ETL Processes**: Data scrubbing, update/insert, Oracle packages, integrity checks, big data (millions of records), parallel processing. Python, PL/SQL.
* **Microsoft Dynamics**: Implemented large scale data migration from *Microsoft Access DB* to *Dynamics* via CRM Web API. C#, SQL.
* **ESRI ArcGIS Desktop Suite**: Data analysis and automating geoprocessing tasks. Python.
* **ArcGIS Portal**: Design/support *Hosted Feature Services* and *Vector Tile Caches* for web applications. Python.
* **CI Pipeline**: Used Jenkins/GitHub to implement various features and plugins for a more effective continuous integration system for developers. Bash/Shell.
* **ELK Stack**: Deployed data analytics to Kibana dashboard through Elasticsearch to catch signs of possible database degradation. Java, JSON, Python.
* **ElastAlert**: Implemented Yelp’s open-source alerting platform on Elasticsearch to look for abnormal response time anomalies that exceeded a threshold. Python.

**LANGUAGES AND TECHNOLOGIES**

|  |  |
| --- | --- |
| C# | 2 Year |
| Python | 2 Years |
| Java | 2 Years |
| Javascript | 1 Year |
| PL/SQL | 2 Year |
| C++ | 1 Year |

**IMPORTANT LINKS**

<https://www.linkedin.com/in/joel-herd-556139104/>

<https://github.com/herdjoel/CodeSamples>

<http://www.herdjoel.com>