**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)
  + Develop and support **.NET Web Applications** and **Web API** with **Unit Testing** to support citywide GIS.
  + **ETL**: Design, implementation, and enhancement of data transfer and analysis processes for usability and efficiency over millions of records of public utility data.
  + Advocation and implementation of **Devops** practices in team (Azure Devops).
  + Platform-to-Platform migration of large datasets from **MS Access DB**s to **MS Dynamics** to **Oracle DB.**
  + Architecture and support of on-premise **ESRI ArcGIS Portal** service to host vector tile and feature servicesfor web map applications, and multi-departmental Basemaps

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**.

**TECHNICAL EXPERIENCE**

* **.NET Web Applications**: .NET MVC stack. Javascript, JSON, C#, Python, Oracle SQL.
* **Web API:** HTTP/HTTPS REST API in C#.
* **Unit Testing**: Challenge edge cases and look to trigger expected exceptions. C#, JSON.
* **ETL Processes**: Data scrubbing, update/insert, Oracle packages, integrity checks, large datasets (millions of records), parallel processing. Python, PL/SQL, ESRI ArcPy.
* **Devops (Azure Devops)**: Implemented weekly stand-ups and enhanced workflow to clean up backlog by advocating for developer ownership over backlog items and increasing the rate of closing work items. Passion and a charming smile.
* **MS Access/MS Dynamics/Oracle**: Leveraged MS Access SQL to dump data into MS Dynamics and then Oracle via CRM Web API (fetch XML) to serve customers consuming each DB respectively. C#, Python, SQL, FetchXML.
* **ArcGIS Portal**: Building .mxd/.aprx in ArcMap/ArcPro and bundling into .sddraft/.sd (Hosted Feature Services) and .vtpk (Vector Tile Caches) to publish through an automated pipeline. Python, ESRI ArcPy.
* **CI Pipeline**: Used Jenkins/GitHub to implement various features and plugins for a more effective continuous integration system for developers. Bash Command Line.
* **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 |
| Javascript | 1 Year |
| PL/SQL | 2 Year |

**IMPORTANT LINKS**

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

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

<http://www.herdjoel.com>