Alexander Wazonek

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EXPERIENCE

Environment & Climate Change Canada *May 2018 - PRESENT*

Software Developer

- Held an Acting Team Lead position where I led project development for Java programs, coordinated a hiring process, and collaborated with my team through Agile methodology procedures, such as daily Scrum.
- Reduced our team's time spent testing, packaging, and deploying builds by 75% for over 100 projects by implementing and maintaining an automated pipeline system using Jenkins, Gitlab, Docker, and Maven.
- Automated weather balloon launching stations which reduced time spent manually monitoring launches, through the use of an Electron app running an Angular UI with a Java backend.
- Led a modernization effort to remove manual involvement in server upgrades by creating an Ansible module which automated the entire process, reducing time spent manually upgrading by as much as 80%.
- Developed a Java component with an underlying Python script to process satellite data every 30 minutes for distribution to a PostgreSQL database.

Environment & Climate Change Canada *May 2016 - September 2017*

Co-op Student Software Developer

- Developed a product generator in Java which reads weather input across multiple inconsistent data formats to convert them to a standardized XML format for processing and storage in a PostgreSQL database.
- Developed XML decoders to process raw weather station data from weather stations, airplanes, buoys, and other data sources into a digital format for storage in a PostgreSQL database.

SKILLS & ABILITIES

- **Languages and Frameworks**: C#, Java, Python, Angular, Typescript, JavaScript, C++, C
- **Tools:** Git, Jenkins, Docker, Google Cloud Platform, Maven, Electron, Unity, Ansible
- **Databases & Search Engines**: PostgreSQL, Oracle, Elasticsearch, Lucene

PROJECTS

Plague Breaker — *Unity & C#*

- Plague Breaker is a video game developed using Unity and programmed in C#. The project was developed with myself as the director and lead programmer, alongside two artists, two music composers, and a junior programmer.
- The project was released on Steam on September 14th, 2021.

Cryptochatter — *Google Cloud, Python, Angular, Docker, Elasticsearch, & Git*

- Created an API and an Angular Web app which reads cryptocurrency discussions online and compares them to currency valuations, deployed using a Continuous Deployment pipeline on the Google Cloud Platform.

EDUCATION

Ryerson University — *B.Sc. (Honours) Computer Science Co-op*

September 2013 - May 2018, Toronto ON