Olivier Preston
Software Developer

opreston@ualberta.ca

587-568-5184

I am a full stack developer who loves to ask thought provoking questions, understand the underlying assumptions behind the status quo, and push myself beyond my limits to implement new products or processes

EDUCATION

Double Major: Math & Computing Science
University of Alberta

09/2012 – 05/2017

Courses
- Software Engineering
- Operating Systems Concepts
- Reinforcement Learning for Artificial Intelligence
- Combinatorics
- Mathematical Modelling
- GPU Programming
- Visual Recognition
- File and Database Management
- Numerical Methods

WORK EXPERIENCE

Systems Analyst
CGI

04/2018 – 02/2020   *Edmonton AB*

Full Stack Java/Spring Development
- I was in charge of all development activities on an internal Java/Spring web application used for employee time entry, time reporting, and workflow management
- I was responsible for implementing the transition to time entry in JIRA for 140 CGI employees and integrated JIRA with other internal systems
- Took part in both technical and business decisions at the big picture level, including driving meetings with management to provide updates
- Worked under direction from the lead architect and had my code reviewed by the lead architect for each sprint
- Gained experience with practical (big picture) thinking and pragmatic programming. Also gained technical experience with technologies such as Maven, Jenkins, Docker, Thymeleaf, JQuery, and JUnit testing.
- Frequently met with management team to discuss transition requirements and development items.

JUNIOR DATA ANALYST
Workforce Planning and Analytics, Public Service Commission, Government of Alberta

10/2017 – 02/2018   *Edmonton AB*

Achievements/Tasks
- Wrote queries in the SAS environment to help with data validation, data manipulation, and workforce reporting of the Alberta Public Service
- Helped with User Acceptance Testing and provided input in meetings for a new Enterprise Data Management System being developed for the Government of Alberta
- Worked effectively and efficiently with senior data analyst to answer data requests in a timely fashion

SKILLS

Java · Spring · Hibernate · SQL · Thymeleaf · React · Node · MongoDB · Express · JUnit/Mockito · Jenkins · Docker · HTML · Python · Javascript · jQuery · CSS · Django · Webpack · Maven · Android · C/C++ · CUDA · MIPS Assembly

PERSONAL PROJECTS

Sudoku Helper (01/2020 – Present)
- Developed a React app which allows users to enter a sudoku puzzle, solve it, or provide colour coded hints to teach users how to get through more challenging puzzles.

MERN stack app for sharing visited places (04/2020 – Present)
- App allows users to log in and share visited places with other users. Developed a user authentication page, google maps API connection, and a REST api which connects my React front end to the Node and MongoDB backend.

Portfolio Website (01/2020 – Present)
- Developed and deployed a Django website hosted with Digital Ocean which showcases personal projects and details about myself
- Uses a PostgreSQL database

InTheMood Android App for Sofware Engineering Class Project (01/2017 – 04/2017)
- Developed an android app which allowed users to post their current mood, share each mood with friends, take a picture alongside each posted mood, and view information about each mood including the location on a map

Visual Recognition Project (09/2016 – 12/2016)
- Developed a visual recognition algorithm used for classifying pictures of German road signs with classmates. This program implemented a convolutional neural network algorithm.
- Achieved 92% accuracy classifying images into 100 different classes/categories of road signs

Mathematical Modelling Final Project (09/2016 – 12/2016)
- Developed a mathematical model to explain the optimum production policy for a company manufacturing plastic bags, milk jugs, and environmentally friendly milk jugs. We were given resource restrictions on post-consumer plastics and industrial scraps as well as their costs.