Aleksandr Mandzyuk

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Education

Washington State University Everett   August 2017 to December 2019

- Bachelor of Science in Software Engineering
- Current GPA - 3.51
- Major Coursework: Algorithms, Software Engineering Principles, Object Oriented Software Principles, Operating Systems, Parallel Computing, Database Systems, Project Management Professional Training, Distributed Systems, Web Development, Software Design and Architecture

Everett Community College   September 2015 to June 2017

- Associate's in Arts and Science Direct Transfer Degree

Skills

Programming Languages

- Java, C#, C/C++, SQL, Javascript, HTML/CSS, Python

Technologies

- Git, PostgreSQL, UML, Linux, JUnit, Azure Machine Learning, OpenMP, MPI, jQuery, libGDX

General

- Fluent in English, Ukrainian, and Russian

Projects

Feedback Collection and Analysis System   September 2018 to Present

A general purpose feedback analysis tool to help developers fix bugs. Sifts through any number of user feedback reviews, categorizes these reviews, and provides insight about issues.

- Web service created using React.js as the front end. Uses REST API to access Azure ML web service to create and train machine learning model on a dataset provided by the user. New data can be sent directly to the model for automatic categorization.
- Using Azure ML web services, a machine learning model can be built programmatically using a Jupyter development environment.

SQL Database Query Application   March 2018 to May 2018

A "Yelp-like" application that allows users to read and write reviews, view data about businesses, and create their own personal profile to view their own comments, tips, friends, and other metrics for their account.

- Produced using C#, PostgreSQL, and Python. Used Python to parse JSON files and populate PostgreSQL database.
- GUI built in C# WPF application. This application queries the SQL database in order to retrieve relevant information, and populates the WPF window with all retrieved information.
- User can create a new account, and use it interact with the application. User account will then be stored in the database.
- Implemented Bing Maps API to display all businesses returned by a specific query.

Spreadsheet   February 2018 to March 2018

A simple spreadsheet application that can do basic operations on cells and read from/ save to file.

- Produced using C#, and created a C# WinForms application for GUI. Implemented a parse tree for math operations, and observer pattern to update cells.
- Saving and loading done by converting spreadsheet to XML.