Brayden Arthur

1059 Walalee Dr. Delta, BC V4M 2L9
t: (778) 874 - 4849 e: braydenarthur@gmail.com w: braydenarthur.ca l: linkedin.com/in/braydenarthur/

Education

University of Victoria - Bachelors of Software Engineering 2012-2018

Software Evolution – Created a data analytics tool in python and R to take in reddit upvote data to analyze and visualize mention activity of specific character names

Software System Scalability - Developed a stock trading system from the ground up in Golang. The system scaled from 1 user and 20 transactions per second to 1200 users with over 5,000 transactions in a three month period

Software Requirements Engineering – Worked on a software project collecting requirements and formulating requirements specification documents in accordance with client needs

Projects

Twitter Classifier 2017

Classified a dataset of famous individuals tweets using a Neural Network based on Scikit-Learn, Pandas, and NLTK. Further classified whether inputted tweets or text matched an individual and how closely. Built a web interface and visualization suite for the project.

Battlesnake 2016, 2017, 2018

Programmed an autonomous snake to compete with various other in an arena. The snake was programmed in Python.

Flight Descent Analysis 2018

Classified landing instability in commercial aircraft using machine learning. Created a visualization tool and web scale back end to assist in the viewing of the resulting data.

Experience

Full Stack Developer - Used.ca 2017

used.ca is a local online classifieds site for the sale of used items. At used.ca I created an administrative tool for employee use to help with the organization of classified advertisements, and assisted with the development and implementation of a new codebase for the main website. The administrative tool was created using Flask, MongoDB, with an ELK stack for simple searching and logging of advertisements. My work on the new codebase was primarily using Django.

Research Developer – University of Victoria 2015

Developed a language processing framework to process encyclopedia entries from the Routledge encyclopedia of Modernism, and a web-front to display the relations. The encyclopedia entries are classified into ontological categories and relationships between entities. Using the StanfordNLP library and various Python programs the analyzed entities were deposited into an RDF database. The relations between entities are then viewable and compared on our visualization tool at linkedmods.uvic.ca.

Skills

Languages: Python, Java, JavaScript, C, GoLang

Development: Algorithms, Agile, Object Oriented Design, Requirements Gathering and Specification

Databases: MongoDB, Postgres, Elasticsearch

Web Libraries: jQuery, D3, Gorilla, Flask, Django

Analytic Libraries: Tensorflow, NLTK, Scikit-Learn, NumPy