Brayden Arthur

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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 had to scale from 1 user and 100 transactions to 1200 users with over 1,000,000 transactions in a three month period

Algorithms and Data Structures - Learned general purpose searching algorithms and fundamental data structuring for the purposes of large scale software systems. Also worked on proofs of larger scope computer science problems

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

Projects

Twitter Classifier 2017

Created a Neural Network using Scikit-Learn, Pandas, and NLTK to classify a tweet dataset of famous individuals and classified whether inputted tweets or text matched an individual and how closely. Also built a web interface for the project.

Battlesnake 2016, 2017, 2018

Programmed an automated snake to compete with various other in an arena. The snake was programmed in Python and has been rebuilt multiple times

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 (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, on 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

Working as a research Developer I developed a language processing framework to process encyclopedia entries from the encyclopedia of Modernism, and a web-front to display the relations. The encyclopedia entries needed to be 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 the web front end, 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