JeffreyFei

🎓 Software Engineering, University of Waterloo

✉️ jzffei@uwaterloo.ca

🐙 github.com/jeffreyfei

🏠 jeffreyfei.com

💼 Experience

Software Engineer Co-op | EMC
May 2016 – Aug 2016

Prescan Dashboard

- Implemented **AngularJS** and **AngularUI Bootstrap** to build a user friendly web interface displaying monthly build reports with advanced filtering functionalities

- Constructed **Node.js** backend integrated with data-mining capabilities which not only supports a dynamic frontend interface but also enables automated file upload from build machines using its REST API

Outstanding Owners Issues Audit

- Server-side command line tool created by **Python** to automate user reassignments over the Coverity static analysis platform

- Reassigned issue reports owned by inactive users by cross referencing Coverity data and corporate LDAP server using the Coverity **SOAP API**

Coverity-Bugzilla Cross Reference

- Server-side **Python** script that enables communication between Coverity and Bugzilla by utilizing the Coverity **SOAP API** and Bugzilla **XMLRPC Web Service**

- Identifies the corresponding Bugzilla reports of newly detected issues queried from Coverity by data-mining the Perforce change history

- Automatically updates Bugzilla reports by utilizing its **XMLRPC Web Service** with data acquired from Coverity

Purify-Coverity Importer

- Server-side **Python** script that performs data-mining logs produces by the Purify dynamic analysis platform to the Coverity web interface

- Enabled easy access to software issue reports produced by the two analytic process on a single platform

Full Stack Development | Aerodrifting Systems
Jul 2016 – Aug 2016

Purify-Coverity Importer

- Utilized AngularJS and AngularUI Bootstrap to build a customer oriented retail interface that works in correlation with the AD Systems eBay store to provide guest with improved shopping experience

- Implemented customer review and purchase request system using a **Node.js** backend with a **Redis** database

🔱 Projects

Personal Website
Aug 2016 – Present

- Implemented **AngularJS** to build a dynamic online platform to share my academic resources and advertise my coding career

- Improved user friendliness by designing a responsive web interface using front-end styling technologies such as **AngularUI Bootstrap** and **AngularStrap**

- Built a **Node.js** backend using the **Express** framework to handle file uploads and comments which allows users to contribute to the content of the website

Wat Product (IBM Watson Developer Challenge)
Jan 2016 – Feb 2016

- Web application that rates a product using keyword extraction and sentiment analysis

- Utilized **Watson Alchemy API** in **Node.js** to fetch and analyze the sentiment of news and review articles to generate an accurate rating public opinions

PT Now
Dec 2013 – Sep 2015

- Designed in **Java** to display auto-synchronized time, date, and class on Pinetree Secondary School television screens

- Implemented the **Java Swing** library, basic multi-threaded programming and exception handling to create a dynamic desktop GUI Interface

Mayo (Engineering Hackathon)
Oct 2015

- Painting software with interactive GUI designed using the Java Swing library that displays the user gesture input detected by the Myo armband on canvas

- Implemented the **Java Swing** library, basic multi-threaded programming and exception handling to create a dynamic desktop GUI Interface

PolyCalc
Dec 2014 – Apr 2015

- Root finder that allows user to solve polynomial equations on any Android smartphone

- Developed an Android GUI with integrated calculator keypad using **Android SDK**