

# JeffreyFei

 Software Engineering, University of Waterloo

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## Experience

Software Engineer Co-op | EMC

May 2016 – Aug 2016

### Prescan Dashboard

Utilized **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

Designed **REST APIs** to support a dynamic web based UI and automated file uploads

### Outstanding Owners Issues Audit

Created Server-side command line tool with **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 on logs produced by the Purify dynamic analysis platform and send the processed data 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 | Aerodrift Systems


Jul 2016 – Aug 2016

### Retails Website

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 an improved shopping experience

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

## Languages/Technologies

 Java, Python, C++, C, JavaScript

 AngularJS, CSS, HTML

 Node.js, Redis

 Bootstrap, Git

## Projects

Personal Website

Aug 2016 – Present

Used **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 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

Used the **Java Swing** library, basic multi-threading 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

Applied the gesture identification functionality using the **Myo API** for features such as painter, colour changer, pen size, and eraser

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**