

Jasper Shan

4A COMPUTER SCIENCE

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Skills

Programming Languages Java, C++, C#, Python, JavaScript
Libraries / Frameworks Android, iOS, Node.js, Flask, Cordova, Spring, Maven
Tools PostgreSQL, Microsoft SQL Server, Git, Perforce, Jenkins

Experience

Amazon

SDE INTERN, AWS LAMBDA

Seattle, Washington

May 2017 - August 2017

- Created in depth design documentation for new proposed feature in Lambda API

Atrio Systems

SOFTWARE DEVELOPER, MICROSOFT DYNAMICS CRM

Bloomfield Hills, Michigan

Aug. 2016 - Dec. 2016

- Led the development of an Android/iOS application that allows users to create appointments with nearby clients, built with **Apache Cordova** and **Framework7**, utilizes Google Places API - published on App/Play Stores
- Designed a custom payment verification method which enabled sales to enterprise clients via volume licensing
- Aided in the production of an ad campaign on the app which led to 5,000 new page views to the company website over three days

Informatica

SOFTWARE ENGINEER, MASTER DATA MANAGEMENT

Toronto, Ontario

Jan. 2016 - Apr. 2016

- Java backend development of multi-platform **Master Data Management** product built on **Oracle/DB2** and **JBoss/WebSphere**
- Developed a custom **Kerberos** authentication solution used with DB2 in Java/Python and integrated into existing build system
- Participated in a large scale integration effort - over 150 individual integration issues and bugs resolved

Delego Software Inc.

SOFTWARE ENGINEER, PAYMENTS - SAP INTEGRATION

London, Ontario

May. 2015 - Aug. 2015

- Designed and implemented a web-based user authentication system for customers utilizing **Apache Shiro**
- Integrated **SonarQube** with the existing **Jenkins** build system, allowing the company to quantify their technical debt and code coverage

The Globe and Mail

AUTOMATION ENGINEER, BACKEND

Toronto, Ontario

Sep. 2014 - Dec. 2014

- Acted as the sole developer in charge of designing unit tests, mainly utilizing **JUnit**, resulting in a 70% increase in code coverage

Projects

Booru+

IMAGE BOARD

Nov 2016 - Present

- Image gallery / archive web application where users can perform tag-based searches over all posts
- Developed with **Flask** web framework, **Python** backend, **PostgreSQL** databases, and **SQLAlchemy**, using **Waitress** as the WSGI server

Artificial Neural Network

MACHINE LEARNING

- Implemented a general purpose Artificial Neural Network that utilizes genetic algorithms in Java
- The network was used to simulate evolution of an animal population; animals evolve to become more effective at traversing to food

Rubik's Cube Solver

AUTONOMOUS ARDUINO ROBOT CAPABLE OF SOLVING RUBIK'S CUBES

Education

University of Waterloo

CANDIDATE FOR BACHELOR OF COMPUTER SCIENCE, CLASS OF 2018

Waterloo, Ontario

Sept. 2013 - Present