Darren Hum

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Skills

Languages	Java, JavaScript, SQL, HTML/CSS, Python, C#, C++,
Tools	Hibernate ORM, jUnit, Apache Struts, OSGI, Git, Bash, Jira

Education

Bachelor of Computer Science
Carleton University; 3.7/4 GPA
September 2014 – May 2019

Work Experience

Ross Video Ltd. | Full Stack Software Developer　　　　　　　　　July 2019 - Current
Java, JavaScript, HTML/CSS, Struts2, Hibernate, GIT, MySQL, PostgreSQL
- Developing new features and fixing bugs for an industry-leading web-based Newsroom Computer System (NRCS)
- Led the design and implementation to integrate Twitter authentication into the product
- Investigating and resolving customer issues of varying urgency
- Ensuring product stability and reliability by writing unit tests and performing manual testing and regression

Microsoft | Software Engineer Intern　　　　　　　　　May 2018 - Aug 2018
C#, ASP.NET, .NET, Microsoft Service Fabric, GIT
- The Coalition - Member of Gears 5 Online Services Team
- Designed and implemented a dead-letter queue to prevent the stats/leaderboards pipeline from being blocked on ingestion of poisoned messages
- Designed and implemented nonce protection for stats/leaderboards ingestion
- Performed load testing on stats/leaderboards ingestion pipeline to determine potential bottlenecks

Ross Video Ltd. | Java Software Developer Intern　　　　　　　　　Jan 2018 - Apr 2018
Java, JavaScript, HTML/CSS, Struts2, Hibernate, SVN
- Replaced Inception News' old video preview player with a new HTML5 player with MPEG-DASH streaming support
- Added HTML 5 Video streaming support to the backend server
- Discovered and resolved various bugs and issues within the Inception line of products

Nokia | Software Designer Intern　　　　　　　　　May 2017 - Aug 2017
Java, jUnit, Intellij, Gerrit, GIT, SOAPUI
- Designed and developed various new features for Nokia's Policy & Charging solution
- Designed and implemented device validation checks resulting in strict rules for device validation
- Programmed various APIs allowing developers to access data stored in an AQL database through SOAP UI
- Wrote extensive jUnit tests for new and existing code eliminating any unexpected behaviour

Espial Group Inc. | Server-Side Developer Intern　　　　　　　　　Sept 2016 - Dec 2016
JavaScript (Node.js), Docker, ELK Stack, AWS
- Moved the monolithic Media Service Platform (MSP) onto a microservice architecture using Docker
- Created a tool that aggregated stats from JIRA using a modified ELK Stack resulting in granular scrum stat monitoring
- Deployed Espial's MSP on Amazon Web Services for a network DVR proof of concept

Ciena | Software Engineering Intern　　　　　　　　　May 2016 - Aug 2016
TCL, Git, Perforce
- Added logging function to test scripts resulting in the simplification of debugging
- Wrote various testing scripts for layer 0 photonics transport and switching

Side Projects

Connect 4 Ai | *Python*　　　　　　　　　Jan 2019
- Created an ai to play connect 4 using minimax alpha-beta pruning

Payroll Application | *C++ and Qt Framework*　　　　　　　　　Mar 2017
- Designed and developed a payroll system using the Qt framework for GUI allowing users to edit an employee's payroll information

Awards

Dean's Honor List, NSERC – Experience Award, Claude Bissell Scholarship & Murdoch Maxwell MacOdrum Scholarship