Jaydon Lau

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4B Computer Science & Business Administration (Double Degree)

WORK EXPERIENCE

MAY 2017 JAN 2017	**Investment Technology Group** *Algorithmic Trading Developer* • Improved a deploy tool written in C# by using multi-threading and compression algorithms, reducing the running time by up to 50%, saving over 250 hours annually • Worked on a variety of trading strategies in C++ and C#, including hedging, opportunistic, VWAP and volume participation algorithms • Debugged issues with algo strategies using a real-time testing environment and wrote Lua scripts for simulated testing
MAY 2016 JAN 2016	**CognisantMD** *Software Developer* • Improved asynchronous data transmission from the Spring/MongoDB back end to the Android client for handling encrypted patient health information • Implemented UI redesign with Bootstrap and RequireJS for modularizing JavaScript code • Developed both the front end and back end code for previewing and reverting an electronic form's history using Spring MVC • Wrote a health card validation service using SOAP architecture and public key infrastructure with a digital signature scheme (WS-Security)
SEP 2015 MAY 2015	**Piller's Fine Foods** *Web Developer* • Developed a fully responsive website using Bootstrap and JavaScript/jQuery • Wrote a plug-in in PHP to receive and validate POST data on Craft CMS (Content Management System), along with sending automated e-mails
JAN 2016 SEP 2015	**University of Waterloo** *Undergraduate Marker* • Worked as a Math TA for two terms, marking MATH135 and MATH127

PROJECTS

CryptoPals - *Matasano Crypto Challenges (2017)*
  • Set of challenges covering various cryptographic topics (partial solutions in Python)
Chess Clock Time Control - *Android App (2016)*
  • Chess clock timer that implements different types of delay increments (Fischer, Bronstein)
Crypto - *Android App (2015)*
  • Implements various cryptographic encryption and decryption algorithms

EDUCATION

SEP 2014 - (AUG 2019)	Candidate for Bachelor of Computer Science, Bachelor of Business Administration University of Waterloo and Wilfrid Laurier University

ACHIEVEMENTS AND AWARDS

Work Term Report Award *University of Waterloo, May 2016*
  • Won the Math Faculty award, comparing client-side encryption with end-to-end encryption
Samsung Live Case Competition Finalist (2nd out of 250 teams) *Wilfrid Laurier University, Oct 2014*

TECHNICAL SKILLS

LANGUAGES:	Java, Python, HTML/CSS, JavaScript, C++, C#
TOOLS/FRAMEWORKS:	Git, Vim, JUnit, Android Studio, Eclipse, Visual Studio, LaTeX, Spring