Darren Cao

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OVERVIEW

- Strong CS and Math fundamentals, with interests in solving challenging, analytical problems
- Enjoys building things and learning the latest tech through hackathons and open source projects
- **Skills**: C/C++, Java, C#, Ruby, Python, JavaScript, HTML, CSS, SQL, Android, git, bash

EDUCATION

University of Waterloo – Bachelor of Software Engineering, Year 3B   *Sep 2013 – present*
- Cumulative Average: **87% (3.95 GPA)** – **Top 10 ranking** in class (3 terms)

EXPERIENCE

Riviera Partners – *Full-Stack Developer (Ruby on Rails, React)*   *San Francisco, CA (May 2016 – present)*
- Replaced mail plugin with in-app functionality using React, simplifying recruiter workflow
- Increased core back-end security with identity, authorization, and validation enhancements
- Improved app scalability by adding seeds and coding workers to purge obsolete database objects
- Wrote clean, maintainable code and unit tests in RSpec, passing integration tests and code review

DBRS Limited – *Full-Stack .NET Developer*   *Toronto, ON (Sep 2015 – Dec 2015)*
- Rewrote main AngularJS modules used across the application to support restructured processes
- Designed modals for streamlined data presentation and entry, increasing analyst productivity
- Constructed an automated report builder through SQL querying and custom spreadsheet parsing

Ultimate Software – *Applications Developer*   *Weston, FL (Jan 2015 – Apr 2015)*
- Created an interactive page-scraper for Selenium code-generation from scratch in JavaScript
- Optimized analytics application speed by 100% through elimination of bottleneck dependencies

Toronto Hydro – *Systems Engineer*   *Toronto, ON (May 2014 – Aug 2014)*
- Automated data input and statistical analysis with scripts, reducing manual input time by 80%

PROJECTS   GitHub: https://github.com/dcaoyz

Raspberry Pi Robot – *HackPrinceton $1k Prize Winner*   *https://github.com/ICUbot*
- Built an autonomous robot that can detect and chase intruders, implementing multithreading to responsively calculate movements and provide current status updates through a Node.js server

Algorithmic Trading Bot – *Jane Street Competition **Finalist (Top 8)***   *https://github.com/dcaoyz/trader*
- Developed adaptive, real-time algorithms applying arbitrage strategies in a market simulator

Facial Analyzer & Filterer   *https://github.com/dcaoyz/facefilters*
- Experimented with facial analysis by filtering images for desired features using a Flask back-end