

Darren Cao

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SUMMARY

- Strong CS and Math fundamentals, with interests in solving challenging, analytical problems
- Passion for developing and experimenting with new tech through hackathons and open-source

EDUCATION

University of Waterloo – Bachelor of Software Engineering, Year 3B

Sep 2013 – present

- CAV: **87% (3.95 GPA) – Top 10 ranking** in class (3 terms)
- Courses (C/C++/Java): Data Structures/Algorithms, Operating Systems, Compilers, Concurrency

EXPERIENCE

Riviera Partners – *Full-Stack Developer (Ruby, React)*

San Francisco, CA (May 2016 – present)

- Implemented core app functionality on a Ruby backend in a small, fast-paced environment
- Improved login module robustness with authentication, OmniAuth, identity, and validation work
- Replaced external plugin with in-app functionality using React, streamlining recruiter workflows
- Increased app scalability by coding workers to purge unused database objects and adding seeds
- Wrote clean, maintainable code and unit tests in RSpec, passing integration tests and peer-review

DBRS Limited – *Full-Stack C# Developer*

Toronto, ON (Sep 2015 – Dec 2015)

- Rewrote main AngularJS modules used across the application to support restructured processes
- Built a dashboard for sleek data presentation and entry, improving 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 from scratch for Selenium code-generation, in JavaScript
- Optimized analytics application by reducing complex dependencies, improving speed by 100%

Toronto Hydro – *Systems Engineering*

Toronto, ON (May 2014 – Aug 2014)

- Automated data input and statistical analysis through scripts, reducing manual input time by 90%

PROJECTS

GitHub: <https://github.com/dcaoyz>

Home Security Robot – *HackPrinceton Finalist and Prize Winner*

<https://github.com/ICUbot>

- Uses Kinect to autonomously detect foreign humans and chase away would-be intruders
- Provides a live status and image feed on social media through a Node.js backend
- Implements multi-threading to responsively handle movements, media, and HTTP requests

Android Photo Gallery Enhanced

<https://github.com/dcaoyz/InstaDroid>

- Responsive mobile app with key features such as photo ratings, filters, and image search

Brick Breaker Game

<https://github.com/dcaoyz/brick-breaker>

- Realization of classic game with modern customizations to learn about real-time drawing in Java