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# Tristan Rice

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**Current Address**
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| WORK EXPERIENCE | | |
|---|---|---|
| | **Software Engineering Intern, Cockroach Labs** cockroachlabs.com | Summer 2016 |

- Worked on stability of the distributed KV-store.
- Designed a debugging tool for the Raft consensus algorithm.

**Software Engineer (part-time), Gridspace** gridspace.com　　　Spring 2016

- Seamlessly transfer conference calls between servers for scalability.
- Gridspace Memo UX improvements. Sift API bug fixes.

**Software Engineering Intern, Google**　　　Summer 2015

- Worked on tools for curating the Knowledge Graph and data integrity.
- Primarily used Go, C++, AngularJS, Polymer, and GoogleSQL.
- Increased productivity of thousands of Google contractors.

**Engineering Intern, Socrata** socrata.com　　　Summer 2014

- Front end development using AngularJS, and Ruby.
- Debugging Scala and Java backend.
- Software used by 100+ major government organizations.

**OPEN SOURCE**

**Linux Kernel** git.kernel.org　　　November 2013

- Updated kernel driver to support the MayFlash GameCube USB adapter.

**PROGRAMMING PROJECTS**

**WebSync** websyn.ca　　　Early 2013 - Present

- An open source Document, Presentation, Spreadsheet, Note Taking and File Sync suite similar to Google Drive or Office 365.
- Written in Node.JS, Javascript and Ruby with PostgreSQL and Redis.
- 700+ Users. 23,000+ Page Views.

**go-pry** github.com/d4l3k/go-pry　　　Spring 2015 - Present

- An interactive REPL for Go that allows you to drop into your code anywhere.
- Implements a Go interpreter that interacts with running compiled code.
- Featured at golangweekly.com/issues/51. 198+ GitHub Stars.

**messagediff** github.com/d4l3k/messagediff　　　Fall 2015 - Present

- A library for doing diffs of arbitrary Go structs including non-exported fields.
- Featured at golangweekly.com/issues/72. 95+ GitHub Stars.

**degdb** https://github.com/degdb/degdb　　　September 2015 - Present

- A distributed economic graph database operating similarly to Bitcoin.
- Won best use of Linode services at PennApps 2015 Fall.

**TECHNOLOGICAL EXPERTISE**

**Languages**

- *Proficient:* Go, Ruby, JavaScript (AngularJS, NodeJS, Polymer), SQL
- *Working knowledge:* C/C++, Python
- *Familiar:* Java/Scala (Android & Web), Racket, Bash, R, Caffe

**Technologies**

- *Proficient:* Linux, PostgreSQL, Redis, Git, CockroachDB
- *Familiar:* MongoDB, nginx

**EDUCATION**

**University of British Columbia**　　　Class of 2018
Studying Computer Science. 3.9 GPA

**LEADERSHIP & HONORS**

**Eagle Scout**　　　Spring 2014
**Canadian Computing Competition**　　　Spring 2014

- Honor Roll & School Champion - Top 10% of competitors.