

**Ryan Churaman**  
**4<sup>th</sup> year Software Engineering**  
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## Technical Skills:

**Proficient Languages:** C++, Python, JavaScript, C, C#, Java, SQL

**Familiar Languages:** Latex, Bash

**Frameworks and Databases:** Django, React+Flux, ASP.NET, AngularJS, MSSQLServer, MySQL

**Tools:** Vim + Tmux, Git, Jira, Jenkins, CircleCI, Visual Studio, Android Studio, GDB, SVN

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## Work Experience:

**Software Developer – Python/JavaScript**

*Tesla Motors*

**Palo Alto, CA**

*Jan 2016-Present*

- Built tools to help automate Model X firmware validation, saving the team time and effort (Python)
- Used Pyro4 to manage running tests and aggregate results nightly through a Jenkins job (Python, Veristand)
- Worked on a dashboard that visualized the nightly test results and created Jira tickets for regressions
- Experienced working on a small team with strict deadlines, got to ride in Teslas everyday

**Software Developer – Python/JavaScript**

*Top Hat*

**Toronto, ON**

*May 2015-Aug 2015*

- Expanded/Debugged Django API(DRF, Tastypie) for an interactive teaching platform (Python)
- Worked on the rewrite of an existing frontend codebase in React+Flux+ES6 (JS)
- Required to include tests with every pull request (behave, selenium, sinon)
- Performed/Responded to code reviews and had daily standups and weekly releases
- Gained experience working in a small team in a mid-sized startup environment

**Software Engineer – C#/JavaScript**

*DBRS Limited*

**Toronto, ON**

*Jan 2014-Apr 2014 & Sept-Dec 2015*

- Used RabbitMQ to distribute and delegate workloads to Amazon AWS worker nodes (C#)
- Expanded a large ASP.NET API for an in-house metric platform (C#, MSSQL)
- Optimized pages to display very large amounts of metrics using AngularJS (JS)

**Software Engineer – C++**

*SAP Sybase*

**Waterloo, ON**

*May 2013-Aug 2013*

- Contributed to SAP Sybase IQ, an in-memory column store database (C++)
  - Used GDB and Visual studio to debug the application on both Windows and Unix platforms (C++)
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## Projects:

**Bioscanner Android App:** Identifies specific bacteria in a contact lens case via image processing (OpenCV)

**OCLEWrapper:** A C++ wrapper for the OpenCL API to allow for testing of simple kernels (CPU or GPU)

**Cryptocurrency Miner Monitor:** An ASP.NET+AngularJS web site that monitors and logs miner stats

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## Education:

**University of Waterloo**

*Candidate for a Bachelor of Software Engineering (BSE)*

**Waterloo, ON**

*2012-2017*

**Turner Fenton Secondary**

*International Baccalaureate Diploma*

**Brampton, ON**

*2008-2012*

**References available upon request**