

# Harold Treen




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## Work Experience

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- **Software Engineer Intern****Pivotal Labs****Sep 2013 – Aug 2014**
  - Co-wrote the backend for a distributed student management system (using Ruby on Rails and Postgres).
  - Completely refactored the frontend game viewer for a 1,000,000+ user early learning website, resulting in 35% less code and the ability to embed multiple viewers (using AngularJS, jQuery, HTML5 and CSS).
  - Strong focus on test-driven development using Jasmine and RSpec, resulting in 99%+ code coverage (1600+ tests running in under 2 minutes).
  - Exceptional scores on all intern evaluations.
- **SDET Intern****Microsoft Corporation****May 2013 – Jul 2013**
  - SDET for the "Headers & Footers" feature of the Word Web Apps.
  - Wrote test automation in C# to verify consistency of header & footer content between the desktop and web versions of Word.
  - Reduced time for document formatting tests by 50% by automating comparisons of multiple documents.
- **Agile Test Engineer Intern****Xtreme Labs****May 2012 – Aug 2012**
  - Implemented first set of internal tools in Bash and Java for Android test automation using the Robotium test framework.
  - Improved build install/test times by 30% by developing Bash scripts for parallelizing install/test tasks for up to 20 devices.
  - Automation work highlighted on the company blog.




## Education

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- **Kingston, ON****Queen's University****Sep 2010 – Present**
  - BASc in Computer Engineering with Professional Internship. Cumulative GPA: 3.56

## Additional Experience

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- **Workshop Mentor****Ladies Learning Code****Oct 2013 – Aug 2014**
  - Canada wide organization that works to increase the number of women involved in technology.
  - Mentored workshops covering a variety of topics including: Processing, Ruby, Wordpress, Javascript, Responsive Web Design, CSS and HTML.
- **Electrical Systems Manager****Queen's Baja SAE****Sept 2013 – May 2014**
  - Developed a data acquisition system for tracking speed and GPS data using an Arduino and C / C++.
  - Created a custom dashboard to display live car metrics to the driver during races.
- **3rd Place Winners****Bike Share Toronto Hackathon****August 2014**
  - Hackathon to create the best tool for cyclists in Toronto using bike share data.
  - Developed an intelligent biking vest and Android app to provide haptic navigation for cyclists.
  - Received the 3rd place prize within the 15-team competition.