Glavin **Wiechert**

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Related Work Experience

Software Developer   Lixar IT, *Halifax, Nova Scotia [Remote]*   *Aug. 2016 - Present*
- Redesigned build process with *TeamCity*, *Git*, *Docker*, *Node.js*, and *Webpack*, reducing build time from ≈60 minutes to ≈20 minutes.
- Improved API response time from 30-120 seconds to consistent sub-second measurements using *Redis*, *Node.js*, *TypeScript*, *GraphQL*.
- Fixed defects in critical software while preventing regressions using *Mocha* for unit/integration & *Gherkin* with *Cucumber.js* for acceptance tests.

Freelance Full-Stack Software Developer   Freelancing, *Dartmouth, Nova Scotia [Remote]*   *May 2016 - Jul. 2016*
- Led team of 2+ other software developers to design and develop iOS application with *React Native* and *GraphQL* API server with *Reindex*.
- Developed web application and *GraphQL* API server with *React.js*, *Relay*, *Node.js*, *Serverless* framework, and *AWS*'s *DynamoDB*.
- Developed Slack Bot using *Wit.ai*, *Botkit*, and *Node.js* integrating with existing API for data retrieval.

Research Assistant (Honours Student)   Saint Mary's University, *Halifax, Nova Scotia*   *Jan. 2016 - Apr. 2016*
- Implemented classification and clustering research of electroencephalogram (EEG) data in *R* and *Java* using methods *Decision Tree*, *Random Forest*, *Support Vector Machines (SVM)*, *Neural Networks*, and *Genetic Algorithms*.
- Co-authored two conference papers and a book chapter written with *LaTeX*.

Senior Software Engineer   Skilltapper, *Lakeville, New Brunswick [Remote]*   *Jul. 2015 - Mar. 2016*
- Led a team of 3 other software developers *remotely*, using *Google Hangouts* for Video Calling and *GitHub*'s Issue Tracker.
- Developed web application in *JavaScript* using *Ember.js* framework and *Sass*.
- Developed a *RESTful API* server in *Node.js* using *Sails.js* framework to interact with customer data stored in *MongoDB* and *Redis*.

Cofounder, Vice President of Engineering   Streamlyne Technologies, *Dartmouth, Nova Scotia*   *Apr. 2013 - Jul. 2015*
- Co-led and mentored a team of 4 other software developers, using *GitHub*'s Issue Tracker and *pair programming*.
- Designed and implemented rule engine to process >5,000 sensors/second using *Redis*, *RabbitMQ*, *MongoDB*, *Python*, *Java*, *AWS*.
- Designed and implemented the *RESTful API* server with *Python*, *MongoDB*, *Redis*, *RabbitMQ*, *AWS*.
- Developed web application in *JavaScript* using *Ember.js* framework, *Ember Data*, and *Sass*.

Software Developer   Compilr (Acquired by lynda.com), *Halifax, Nova Scotia*   *May 2013 - Jul. 2013*
- Developed interactive source code recording web application for educators using *JavaScript*, *HTML*, *CSS*, *PHP*, *Node.js*, and *MySQL*.

Education

Honours in Computing Science, Bachelor of Science   Saint Mary's University, *Halifax, Nova Scotia*   *Sep. 2012 - May 2017*
- *Dean's List* student with 3.9 / 4.3 GPA and graduated in May 2017.
- Wrote honours thesis on classification of electroencephalogram (EEG) data from Muse headband to predict person wearing and their activity.

Projects

Atom-Beautify   Open-Source, *atom.io/packages/atom-beautify*   *Jul. 2014 - Present*
- *Atom* editor package exceeding 4.4 million downloads, written in *CoffeeScript*, testing with *Jasmine*.
- Redesigned to be extensible and integrate with 50+ code beautifiers/formatters supporting 70+ different languages.

TSLint Clean Code   Open-Source, *github.com/Glavin001/tslint-clean-code*   *Aug. 2017 - Present*
- Developed *TSLint* linting rules to enforce *Clean Code* best practices for *TypeScript* and *JavaScript* projects.

IssueBot   Open-Source, *github.com/Glavin001/IssueBot*   *Jun. 2016 - Jun. 2016*
- Developed application to predict labels and detect duplicates of *GitHub* Issues using *scikit-learn*, *Python*, *Node.js*, *React.js*, *PostgreSQL*.

Honours & Awards

2016	**1st Place Team**, 48-hour Hackathon, hosted by Volta Labs	*Halifax, Nova Scotia*
2015	**Finalist Team**, IBM/Sobeys Retail Hackathon, hosted by Saint Mary's University	*Halifax, Nova Scotia*
2015	**1st Place Team**, IBM Bluemix Hackathon, hosted by Saint Mary's University	*Halifax, Nova Scotia*
2014	**1st Place Team**, Saint Mary's University Mobile App Contest	*Halifax, Nova Scotia*