

# Blaine Lewis

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linkedin

Java C# Python PHP C/C++ Matlab Javascript (jQuery, Node) CSS HTML SQL (Oracle, MySQL) Git SVN Eclipse Visual Studio

## Experience

### Student Contributor September - December 2015

Eclipse/Mylyn - [Undergraduate Capstone Open Source Project](#)

- Using Java to further integrate code reviews with the Mylyn Eclipse plugin.

### Program Manager Intern May - August 2015

Bing Ads, Microsoft

- Reimagined piloting Bing Ads features across an entire engineering partner group and operations enabling more pilots run at scale with increased user engagement.
- Discovered dependencies across Bing Ads teams to switch from an in-house version control system to Git.
- Designed an experience enabling more data driven visualizations with capabilities to export to Excel.

### MultiSSH January - April 2015

Research - University of Alberta

- Researched several techniques for increasing throughput across a WAN over TCP in the presence of packet loss.
- Used Python and the UNIX file system to coordinate any number of SSH streams over a network.
- Obtained a 200% increase in throughput over a simulated environment with 95% confidence.

### Program Manager Intern May - August 2014

Bing Ads, Microsoft

- Delivered a feedback mechanism enabling efficient collection and triage for thousands of user feedback items.
- Designed a new experience for the product's grid controls significantly increasing over 400 users' productivity.
- Developed relationships across 6 teams in order to push development of features quickly.

### Web Developer February and August 2014

[kelseyprudhomme.com](#)

- Voluntarily developed and deployed kelseyprudhomme.com from specification.
- Leveraged PHP's natural templating in an MVC architecture and wrote a basic CMS with jQuery on the front end.

### Student Software Developer May - August 2013

Stantec

- Constructed a SharePoint media hub to store and serve video to any device for over 10,000 employees.
- Improved C#/.NET invoicing software by implementing import and export with Excel saving over an hour per invoice.

### Computer Programmer July - August 2010 & 2011

Alberta Ingenuity Centre for Machine Learning

- Wrote an OpenStreetMaps implementation in Java for visualization of geographically tagged data. 2011
- Extended OpenStreetMaps by developing prefetching and caching algorithms for an excellent viewing experience. 2011
- Implemented advanced graph theory algorithms to identify and visualize shortest paths in a network of people. 2010
- Extended existing selection and movement tools using computational geometry and linear algebra. 2010

## Education

### University of Alberta September 2012 - December 2016

BSc with specialization in Computer Sciences

Exchange to University of Sydney

### University of Waterloo January 2016 - December 2018

Thesis based MSc researching human computer interaction