

# Eric Lin



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**Bachelors of Mathematics (Computer Science)** — University of Waterloo, Class of 2020

## Work

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**Aecon Research Team** — *Software Developer* May. 2017 — Aug. 2017

- Worked independently to develop tools and features to allow the integration of digital verification of construction components in fabrication plants
- Implemented and documented a new verification process technique for the alignment of construction pipes which will be included in a civil engineering journal article
- Utilized the VTK graphics system to manipulate 3D laser scans for comparison purposes
- Improved user experience by redesigning the data analysis to be more intuitive and interactive
- Increased application responsiveness by offloading CPU heavy operations to separate threads

**Rocscience** — *Software Developer* Sept. 2017 — Dec. 2017

- Designed comprehensive data display tools using Microsoft's Foundation Class Library
- Implemented 2D and 3D models of building foundations and materials using the OpenGL API
- Built a tool to generate customizable reports on geological models using Microsoft's Graphics Display Interface and HTML
- Wrote project briefs and presented completed products to company executives

**Tangam Systems** — *Software Developer* Jan. 2017 — Apr. 2017

- Collected client browser information and metrics to evaluate the continued support for legacy browsers using C# and VBA
- Advanced current roadmap initiatives such as mobile notifications and team performance statistics by developing and maintaining ASP.NET MVC web applications
- Created and designed the engineering team's landing site and wiki to be functional and appealing for other departments

## Projects

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**Compiler** — *Course Project* Mar. 2018

- Wrote a compiler in C++ to compile a simple language into MIPS assembly code

**Recipe-Builder** — *Hack The Valley* Jan. 2017

- Created an Alexa app to recommend recipes based on ingredients provided by the user, utilizing Amazon's Alexa Skills Kit
- Added the application's voice commands and response phrases to Alexa in JavaScript

## Skills

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**Languages:** C++, C, C#, Python, Java, HTML/CSS, Bash, Racket

**Technology:** Visual Studio, MFC, OpenGL, VTK, JIRA, Git, SVN, Linux