

# ALISON CHAN

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## Education

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- *BS Computer Science; BS Computer Engineering* *2010 – present*
  - Kettering University, Flint, MI
  - Thesis: *Developing a Reliable Communications Protocol for Advanced Manufacturing*
  - Systems and Data Security concentration
  - International Studies minor
  - Current Senior III
  - Expected graduation date: fall 2015

## Experience

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- *Research Assistant* *2013 – present*
  - Kettering University Department of Computer Science, Flint, MI
  - Organised lab activities for CS491 High-Speed Networking and Distributed Applications course
  - Configured OpenFlow switches for Kettering's Advanced Network Applications Laboratory
  - Developed and tested OpenFlow controller applications and routing algorithms for the Reliable Communications Protocol
- *Student Caller* *2012 – present*
  - Kettering University Department of Customer Service and Programs, Flint, MI
  - Invited prospective students to Kettering open house events
  - Assisted in directing self-guided tour traffic during open house events
  - Followed up with event attendees by phone calls and postcards
- *Software Engineering Co-op* *2012*
  - Livio, Ferndale, MI
  - Developed iOS apps and network code for trade show demonstrations
  - Maintained client-facing documentation of Livio APIs
- *Software Engineering Co-op* *2010 – 2012*
  - New Eagle, Ann Arbor, MI
  - Implemented PC applications to interact with embedded control units
  - Created embedded display applications using the CanTrak SDK
  - Evaluated candidate products for distribution
  - Assisted in preparing product marketing materials and internal and external documentation

## Skills

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- *Technical*
  - *Electronics* Test equipment (e. g. oscilloscopes, function generators); hand soldering (through-hole & SMD)
  - *Automotive* CAN, J1939, NMEA2000, OBD2; J1587; basic maintenance & repair
- *Computer related*
  - *Networking* OpenWrt; OpenFlow; TCP/IP; Bonjour
  - *Operating systems* Linux (desktop & embedded); Windows
  - *Hardware platforms* x86/x86-64; embedded MIPS; embedded ARM; SPARC
  - *Programming languages* Python; shell script;  $\text{\LaTeX}$ ; C (desktop & embedded); C#; Objective-C; Java
  - *Collaboration* Git, Github; Trac; SVN; Salesforce
  - *Web technologies* MediaWiki; Facebook Page administration; Octopress
  - *Frameworks* Pox, Windows Forms, WPF
  - *Development environments* Visual Studio; NetBeans