

## Xueguang (Luke) Lu

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Available: May – Dec 2017 (Coop/Intern)

### EDUCATION

**Northeastern University**, Boston, MA

*Sept. 2016-present*

*Candidate for a Master of Science in Computer Science, GPA: 3.83*

*Expected graduation: May 2018*

Related Courses: Programming Design Paradigm, AI, Algorithm, NLP

**University of California, Irvine**, Irvine, CA

*Bachelor of Science in Informatics, concentrated on HCI, GPA: 3.67*

*Sept. 2012 - June 2016*

Related Courses: DB Management, UX, HCI, Data Visualization, IR, AI, Discrete mathematics, Information theory

### TECHNICAL KNOWLEDGE

Languages	Systems	Dev Ops
Python, C++, Java, JS, Haskell	macOS, Ubuntu 14.04, Windows	Git, Azure, AWS, Alexa, MySQL

### WORK EXPERIENCE

**Astronics Test Systems**, Irvine, CA

*Nov. 2015 - June 2016*

Project Manager & Software Engineering Intern | Public Project Poster: [bit.ly/astronics-project](http://bit.ly/astronics-project)

- Implemented and deployed a Windows Universal App for **Windows 10 IoT** to collect data from industrial sensors; used Raspberry Pi, Visual Studio, C#.
- Developed a Web Application to visualize and manage sensor data; using jQuery, Bootstrap, HTML5.
- Implemented a Data Processing workflow on **Azure** (Transact SQL, IoT hub, Stream Analytics, etc.)

**Apples and Oranges Studios**, Irvine, CA

*March - June 2016*

Full Stack Web Development Intern

- Researched and Developed a Show-Venue matching Web App with **Django** framework along with AngularJS and Bootstrap.
- Leveraged Machine Learning (Decision Tree) to implement Content-Based Recommendation.

**Institute of Computing Technology, Chinese Academy of Science**, Beijing, China

*June 2015 - Sept 2015*

Undergraduate Research Assistant

- Translated edge detection and image texture similarity algorithm from **Matlab** scripts into C++, achieving over 500% run time decrease.
- Tuned optimal weights for combining image similarity algorithms by repetitive testing.

### PROJECTS

**Voice Assistant** | Conversational Android App Plugin

[devpost.com/XueguangLu](https://devpost.com/XueguangLu)

- Team Leader, awarded “Best use of IBM Bluemix Platform” at Spartahack 2017.

**Machine Learning to Rank Top Universities** | Linear Regression + Ranking SVM

[bit.ly/universityrank](http://bit.ly/universityrank)

- Improved accuracy over original model (2<sup>nd</sup> place at KDD Cup 2016) by 11% .

**UCI Canvas Testing** | Usability testing for UCI Canvas

[bit.ly/usability-report](http://bit.ly/usability-report)

- Heuristic & Cognitive Walkthrough, Interviewing, User Testing, Usability-Hub, Mouse-Heatmap, etc.

**University App Jam** | Conversation Assisting Android App

[bit.ly/app-jam](http://bit.ly/app-jam)

- Aim to aid speaking for autism children, Awarded “Best User Experience Award” at University App Jam.