

KAI LU

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OBJECTIVE

Full-time Software Development Engineer, begins after graduation at **05/2017**.

EDUCATION

Georgia Institute of Technology 08/2015 - Present
Master's Degree, Computational Science and Engineering, **GPA: 3.67/4**
Relevant courses: Algorithms and Data Structures, Database Systems, Computer Networks
Tongji University 09/2011 - 06/2015
Bachelor's Degree, Civil Engineering, **GPA: 4.29/5**

HIGHLIGHTS OF SKILLS AND QUALIFICATION

Programming Languages: Java, Python, UNIX/Linux Shell, MATLAB, Git, C/C++ and C#.
Front-end: HTML, CSS, AngularJS, jQuery and AJAX.
Back-end: Node.js, Django, MongoDB, DynamoDB, PostgreSQL and REST.
Mobile: iOS Native App with Xcode and Swift.
Network: TCP/IP, Advanced Routing and Video Streaming.
Cloud: AWS S3, EC2 and EMR, as well as Azure VM.
Database: SQLite, MySQL, PostgreSQL, DynamoDB, MongoDB.
Distributed System and Big Data: Hadoop, MapReduce, Spark and Pig.
Machine Learning: K-means, PCA and Random Forest.

EXPERIENCE AND RELATIVE PROJECT

GTRent (ezurls.cc/gtrent), Full Stack Developer, Team Leader 02/2016 - 05/2016

- A web application offering fellow students with better options of rental properties.
- **Language:** Python, JavaScript and HTML.
- **Tech stack:** jQuery, AJAX, PostgreSQL, Django and K-means Algorithm.
- **Data source:** Google Maps, Zillow, Yelp and Local PD.

AmazingGifter (ezurls.cc/agdemo), Mobile Developer 05/2016 - 07/2016

- A native iOS mobile application where users could crowdfund fancy gifts for friends.
- **Language:** Swift.
- **APIs:** Facebook, Firebase, Ebay and Paypal.
- Top 1 project in class and a sample project for the following class.

Traveling Salesman Problem (ezurls.cc/tsp) 10/2016 - 12/2016

- A series of algorithms' implementations trying to solve TSP, a NP-complete problem.
- **Language:** Java, testing with Junit.
- **Algorithms:** Branch and Bound, Construction Heuristic and Local Search.

Ezurl (ezurls.cc), Full Stack Developer, Personal Project 02/2017 - Present

- A web application enabling users to shorten, customize and analyze their urls.
- **Language:** JavaScript and HTML.
- **Tech stack:** AngularJS, NodeJS, Bootstrap, jQuery, AJAX, MongoDB.