

## 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**  
**Tongji University** 09/2011 - 06/2015  
Bachelor's Degree, Civil Engineering, **GPA: 4.29/5**

### HIGHLIGHTS OF SKILLS AND QUALIFICATION

#### Programming Languages

- Learned **UNIX/Linux Shell**, **MATLAB**, **Git**, **C/C++** and **C#**.
- Fluent in **Java** and **Python**.

#### Web Development

- Achieved experience in **HTML**, **CSS**, **AngularJS**, **jQuery** and **Ajax** for the **front-end**.
- Utilized **Django** and **PostgreSQL** for the **back-end**, with knowledge in **IaaS** and **PaaS**.

#### Mobile, Network and Cloud

- Learned **iOS Native App** development techniques with **Xcode** and **Swift**.
- Equipped with **Advanced Routing**, **TCP/IP** and **RESTful API** knowledges.
- Utilized **AWS** and **Azure** to build applications and services.

#### Database and Data Analytics

- Familiar with **Relational Database Server** like **SQLite** and **MySQL**.
- Analyzed **Big Data** with **Hadoop**, **MapReduce**, **Spark** and **Pig**.
- Implemented **Machine Learning** algorithms including **K-means**, **PCA** and **Random Forest**.
- Gained data visualization skills with **D3**, **Gephi** and **Tableau**.

### EXPERIENCE AND RELATIVE PROJECT

**GTRent (Python, JavaScript), Full Stack Developer, Team Leader** 02/2016 - 05/2016

- Mined data from **Google Maps**, **Zillow**, **Yelp** and **Local PD**, and developed a **Ranking system** visualized on a **web application**, using **jQuery**, **CSS**, **PostgreSQL** and **Django**, providing rental **suggestions** with **K-means** algorithm. [URL](#), [Repository@GitHub](#)

**AmazingGifter (Swift), Top 1 Project in Class, Mobile Developer** 05/2016 - 07/2016

- Built a platform where users crowdfund fancy gifts for friends. Designed and combined **API calls** to **listen**, **write** and **automatically pull** changes at **Firebase real-time database** to deal with **concurrent requests**. [Demo](#), [Repository@GitHub](#)

**Traveling Salesman Problem (Java)** 10/2016 - 12/2016

- Implemented **Branch and Bound**, **Construction Heuristic** and **Local Search** algorithms collaboratively with teammates, optimizing and testing them with **JUnit**. [Repository@GitHub](#)