

Siwei “Robert” Li

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EDUCATION

Georgia Institute of Technology
Bachelor of Science in Computer Science

Atlanta, GA
Aug. 2016 – May. 2020 Expected

INDUSTRY EXPERIENCE

Panasonic Automotive Systems
Software Engineering Intern

Peachtree City, GA
May. 2017 - Aug. 2017

- **Visualization:** Developed an extensible visualization tool in React/Redux/Node/d3 that enables engineers to create automated sequences that generate various analysis reports; estimated to reduce 30% of testing time.
- **Log Analysis:** Implemented a Java library for a QNX-based in-vehicle infotainment system; capable of reverse-engineering log files to UML Sequence Diagrams and inferring sources of error to facilitate error detection.

RESEARCH EXPERIENCE

Argo Graph
Polo Club of Data Science, Georgia Institute of Technology

Atlanta, GA
Sep. 2017 - Present

Developing the next cross-platform interactive graph visualization tool capable of handling million-edge scale graph data, with Prof. Polo Chau.

Smart Meter Data Analysis Portal
Polo Club of Data Science, Georgia Institute of Technology

Atlanta, GA
Nov. 2017 - Present

Designing and Developing a web-based data-sharing platform for energy researchers using Smart Grid, with Prof. Polo Chau and Prof. Santiago Grijalva.

Runestone Interactive Ebook
Contextualized Support for Learning Lab, Georgia Institute of Technology

Atlanta, GA
Dec. 2016 - Apr. 2017

Improved an open-source K-12 interactive ebook platform for teaching computer science used by 500+ institutions around the world; created educational code-typing extension assisting memorization of algorithms; implemented ARIA accessibility solutions.

PUBLICATIONS

Shield: Fast, Practical Defense and Vaccination for Deep Learning using JPEG Compression *Feb. 2018*
Nilaksh Das, Madhuri Shanbhogue, Shang-Tse Chen, Fred Hohman, **Siwei Li**, Li Chen, Michael E. Kounavis, Polo Chau
Under Review, ACM SIGKDD 2018 Conference on Knowledge Discovery and Data Mining (KDD'18).

ACTIVITIES

HackGT
Organizing Largest College Hackathon in the Southeast (1000+ Students)

Atlanta, GA
Dec. 2016 - Present

- **Open Source:** Developing open-source software for hackathon organizers, including sponsorship portal.
- **Student Mentor:** Teaching computer science and web development through events for hackathon beginners and high school students in under-represented communities.

SKILLS

Languages: Java, Python, JavaScript, C, C++, PHP, Bash, SQL

Web Development: React, Redux, Node/Express, Electron, Django, CodeIgniter, HTML, CSS, JQuery

Mobile Development: Android, Cordova/Phonegap

Visualization: D3, vx, matplotlib

Miscellaneous: Git, SVN, Docker, Travis CI, Sphinx, reStructuredText, L^AT_EX, Markdown