Siwei "Robert" Li

http://siweili.org

Email : robertsiweili@gatech.edu
Mobile : +1-509-994-5998

EDUCATION

Georgia Institute of Technology Atlanta, GA
Bachelor of Science in Computer Science *Aug. 2016 – May. 2020 Expected*

INDUSTRY EXPERIENCE

Panasonic Automotive Systems Peachtree City, GA
Software Engineering Intern *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 Atlanta, GA
Polo Club of Data Science, Georgia Institute of Technology *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 Atlanta, GA
Polo Club of Data Science, Georgia Institute of Technology *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 Atlanta, GA
Contextualized Support for Learning Lab, Georgia Institute of Technology *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.

ACTIVITIES

HackGT Atlanta, GA
Organizing Largest College Hackathon in the Southeast (1000+ Students) *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.

SELECTED PERSONAL PROJECTS

Habit Pets: PHP Habit-building web app integrating virtual pet games, to-do lists and daily tasks designed for kids.
Way-Vocab: Vocabulary-building tool in Java Swing featuring flashcards, quizzes, and a unique transparent mode.
V-Plate: Voice controlled food delivery robot in Raspberry Pi 3 with an Android controller.

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, LaTeX, Markdown