Ruiqi Yang

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Summer 2019 Master's graduate in computer engineering with deep interests and relevant project work that includes development of IoT solutions, cyber-physical systems, and web development. Passionate technologist dedicated to continuous learning and deep study of the craft.

EDUCATION

Master of Engineering, Computer Engineering,
Univ. of California, Irvine - Irvine, CA (exp. June 2019) 3.83 GPA
- UC Irvine is the first university in the U.S. to offer a professional graduate degree under Computer Engineering department with a focus in CPS, a program designed to train students in the foundation, skills, and hands-on practices of embedded and cyber-physical systems design, optimization and evaluation.

Bachelor of Engineering, Electrical Engineering, University of Pittsburgh at Johnstown - Johnstown, PA (2016)
- Dr. Kama Gella and Dr. Jyothi Gella Award (2016)
- UPJ Presidential Scholarship

PROJECTS

- **Xinfan** (github.com/sk8erry/anime-season) - Built a responsive web app for users to discover and follow new anime by season. Developed site using React and GraphQL.

- **LightSwarm IoT** (github.com/sk8erry/light-swarm) - Developed a dynamic light sensor network implemented using ESP8266 WiFi module (C++) and Raspberry Pi (Python). Data is forwarded and stored at Google Firebase.

- **Driver Fatigue System** (github.com/sk8erry/driver-fatigue-detection) - Designed and implemented a cyber-physical system to detect and respond to driver fatigue using Python and OpenCV. The system detects fatigue using analysis of driver blink rate and pressure of grip on steering wheels.

EXPERIENCE

IoT Developer (Co-op), Insteon - Irvine, California   April 2019 − June 2019 (est.)
- Design testing process for smart home devices
- Design / develop smart home control app (React Native) in collaboration with app development team

Software Development Engineer (Intern), State Grid Corp. of China - Nanjing, China   June 2014 − Aug 2014
- Contributed to C and C++ algorithms for a network delay calculation module

SKILLS

C, C++, Python, JavaScript, ReactJS, HTML/CSS, Git, Linux, OpenCV, Firebase. Basic GraphQL.
Languages: Chinese, English