

Jian Ruan

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Education	Georgia Institute of Technology , Atlanta, GA <i>Master of Science</i> , Human Computer Interaction	2016 - present
	Purdue University , West Lafayette, IN <i>Bachelor of Science in Engineering</i> , Computer Science & General Engineering	2013 - 2016
Research	Animal Computer Interaction Conducting research on animal behaviors by combining smart gadgets and machine learning. Responsibilities include hardware design and prototyping and data analysis.	
	Graduate Research Assistant Designing and developing websites for Westside Community Alliance(WCA) to provide information and services to communities in West Atlanta.	
Project	TapTile: Intelligent Tiles (CIC Competition 1st Prize) Solid research backed design with working prototype that transforms normal sidewalk tiles into intelligent ones that are able to detect movement and harness the energy generated. By reflecting the movement pattern and integrating with artistic representation on display, the system aims to create environment which enhances social interaction.	
	TransitNotifier: Bus Time Notifier Public installation at bus stop that takes the shape of traditional clock but features WiFi ready chip and a ring of LEDs. It queries Nextbus and standard Internet time server periodically to predict bus times.	
	Startup-Genome: Information Visualization Business intelligence project. Organizes data from Crunchbase and patent database, reassembles them into Firebase and built API for front-end use. Visualization using D3 and React provides insights on the success and failure of start-ups.	
	DIA2: Knowledge mining on NSF funding portfolio A web tool (dia2.org) to mine the NSF database visually. Collaboration with Stanford and ASU. Responsible for UX design and web development as well as communication with clients.	
Fundamental	Operating System: Simplified Xinu development Compiler: Simple compiler written in Java using ANTLR4 Shell: Primitive replicate of Bash using Yacc and Bison Automation: Automatic file backup system written in bash script	
Skill	Languages: C, C#, Java, Python, Bash, ARM Assembly, SQL, L ^A T _E X. Web Development: HTML, CSS, JavaScript, NodeJS, Angular, D3, Sass. Hardware: PCB design, 3D modeling and printing, Laser Cut, Raspberry Pi, Arduino, ESP8266, common sensors and actuators Engineering: Matlab, AutoCAD, Revit	
Interest	IoT, Computer Vision, Machine Learning, Human Computer Interaction Hiking, Swimming, Paddle Boarding	