Siyuan (Kelvin) Hu

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EDUCATION

Cornell University, College of Engineering	**Ithaca, NY • Graduated Dec 2018**

Master of Engineering in Computer Science
- GPA 3.6/4.0

New York University Shanghai, College of Arts and Sciences	**Shanghai, China • Graduated May 2017**

Bachelor of Science in Computer Science, Minor in Mathematics, Minor in Business and Finance
- GPA 3.7/4.0 (Cum Laude)
- Dean's Undergraduate Research Fund Award (Summer 2015)

WORK EXPERIENCE

Dipole Tech ❖ *Product Manager*　　　　　　　　　　　　　　　**Shanghai, China • Nov 2019 – Current**
- Duties include designing features for the company's two main products, one being a consumer-facing mobile app called Wattime and the other being an energy-producer-facing management system called EMS; coordinating the development team to deliver features on time; formulating business strategies such as pricing and marketing by studying customer data.

Uber Advanced Technologies Group ❖ *Software Engineer I*　　　　　**Pittsburgh, PA • Mar 2019 – Nov 2019**
- Worked under the AVMaps Applications team in building geospatial web tools to create, support, automate and expedite mapping-related processes in the domain of autonomous vehicles. Used React/Redux for the frontend architecture, DeckGL for graphics rendering and NebulaGL for geometric editing.

Uber Advanced Technologies Group ❖ *Software Engineer Intern*　　　**Pittsburgh, PA • May 2018 – Aug 2018**
- Designed and implemented map production web tools for geo-specialists, such as the street-level panorama panel using camera images taken by the in-vehicle cameras and the traffic light labeling tool to collect data for triangulation.

Energo Labs ❖ *Front End Developer Intern*　　　　　　　　　　**Shanghai, China • Jan 2017 – Apr 2017**
- Developed a management system using React for a distributed peer-to-peer energy exchange platform to monitor electricity meter data, manage user data, and visualize business data.

New York University ❖ *Research Assistant*　　　　　　　　　　**New York, NY • May 2016 – Aug 2016**
- Assisted a postdoctoral researcher at NYU Systems Group with writing benchmarks for a database project that enables serializability as well as parallel execution for partially dependent transactions.

SKILLS

Web Development: React/Redux/Node.js/Express/Sass/WebGL	**Databases**: MySQL/MongoDB
Data Science: Numpy/PyTorch/PySpark/R	**Programming Languages**: JavaScript/Python/Java
Mobile Development: React Native	

PROJECTS

Pedestrian Behavior Prediction　　　　　　**Fall 2018**
Research project on predicting whether a pedestrian is about to cross the street based on a combination of individual features, global environment cues such as traffic lights and crosswalks, and metadata labels. Features are extracted from dash cameras' continuous video frames of pedestrians crossing the street with Convolutional Neural Networks.

Detect Performance Issues in Microservices　　**Spring 2018**
Analyzed performance bottlenecks of a microservice-based network that simulates the Netflix workflow and visualized performance latencies using Gantt chart to identify the microservices that initiated them.

Study Companion Robot　　　　　　　　**Fall 2017**
Built a socially assistive robot that encourages people to be engaged in writing tasks by monitoring the number of keystrokes, the types of their open browser tabs, and their facial expressions.

Travel Planning for NYC Taxi Pickups　　**Summer 2016**
Analyzed historical taxi pickups to study traffic and travel patterns to suggest users on proper timings and locations to get taxis.

Visualize Flickr Sharing Network　　　　**Fall 2016**
Built a visual analytical tool with D3.js to help Flickr users better perceive their sharing behavior on the social network.

LEADERSHIP EXPERIENCE

NYU Study Abroad Student Ambassador Program ❖ *Student Ambassador*　　**New York, NY • Jan 2016 – May 2016**
- Planned events and organized regular town hall meetings for study abroad students from the Shanghai campus and the Abu Dhabi campus.

NYU Alternative Breaks Program　❖ *Team Lead*　　　　　　　　**New York, NY • Sep 2015 – May 2016**
- Organized weekly team discussions on educational issues around the world. Traveled to Monte Cristi, the Dominican Republic for a week-long teaching program to help local elementary students with English writing and speaking.

Digital Express Challenge, Development Bank of Singapore ❖ *Second-Prize Winner*　　**Shanghai, China • Jan 2015**
- Applied a business-hypothesis-driven methodology called Lean Startup to develop a product called WeJar, a family financial planning platform, during the competition.