

Siyuan (Kelvin) Hu

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EDUCATION

Cornell University, College of Engineering

Master of Engineering in Computer Science

Ithaca, NY • Graduated Dec 2018

- GPA 3.6/4.0

New York University Shanghai, College of Arts and Sciences

Bachelor of Science in Computer Science, Minor in Mathematics, Minor in Business and Finance

Shanghai, China • Graduated May 2017

- GPA 3.7/4.0 (Cum Laude)
- Dean's Undergraduate Research Fund Award
- Dean's Honors List

Shanghai, China • Jun 2015 – Jul 2015

New York, NY • Sep 2015 – May 2016

TECHNICAL SKILLS

Languages: JavaScript /Python/Java

Full Stack Development: React/Node.js/WebGL

Databases: MySQL/MongoDB/DynamoDB

Big Data Analytics: TensorFlow /Spark/R

PROJECTS

Detect Performance Issues in Microservices

Spring 2018

Analyze performance bottlenecks of a network of microservices that simulates the Netflix workflow and trying to apply data mining techniques on logging data of distributed traces to visualize performance latencies and identify the microservices that initiated them.

Study Companion Robot

Fall 2017

Socially assistive robot that encourages the user to be engaged in a boring writing task by monitoring the number of keystrokes, the list of open browser tabs, and the facial expressions of the user.

Home+

Summer 2017

Storytelling mobile app prototype that allows migrant parents to record and share a bedtime story with their children at home. The app aims to foster a better relationship between migrant workers and their children left behind.

HireBot

Spring 2017

Chatbot that can analyze work personality of a candidate through a conversation-based psychological test and emotion detection during the candidate's video response to interview questions.

Spinship!

Fall 2016

2D spaceship battle game written in C++, OpenGL, and SDL2. The project is called Spinship because the most interesting feature of this game is the way spaceships are controlled.

Travel Planning for NYC Taxi Pickups

Summer 2016

Data analytics on historical taxi pickups data to study traffic and travel patterns and suggest to users on timings and locations to get taxis.

Visualize Flickr Sharing Network

Fall 2016

Visual analytical tools designed with D3.js to help Flickr users to better perceive and manage their sharing behavior on photo-sharing networks.

WORK & RESEARCH EXPERIENCE

Uber Advanced Technologies Group ♦ *Software Engineer I*

Pittsburgh, PA • March 2019 – Current

- Working under AVMaps Applications team and building geospatial web applications to create, support, automate and expedite mapping-related processes in the domain of autonomous vehicles.

Uber Advanced Technologies Group ♦ *Software Engineer Intern*

Pittsburgh, PA • May 2018 – Aug 2018

- Worked under the AVMaps Applications team of Uber's self-driving car division. Designed and implemented map production tools for geographic 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.

Energio Labs ♦ *Front End Developer Intern*

Shanghai, China • Jan 2017 – Apr 2017

- Served as a front-end web developer and worked on the administrative management website for a distributed peer-to-peer energy exchange platform of household electricity to monitor user data, household electricity, and smart grid performance.

New York University Shanghai ♦ *Teaching Assistant*

Shanghai, China • Sep 2016 – Dec 2016

- Helped answer questions from students of the Data Structures class on lectures and lab assignments during weekly office hours.

New York University ♦ *Research Assistant*

New York, NY • Jun 2016 – Aug 2016

- Assisted a postdoctoral researcher at NYU Systems Group with writing benchmarks for a database project that tries to enable serializability as well as parallel execution for certain transactions at different conflicting levels.

LEADERSHIP EXPERIENCE

NYU Study Abroad Student Ambassador Program ♦ *Student Ambassador*

New York, NY • Jan 2016 – May 2016

- Planned events and activities for study abroad students from the Shanghai campus and the Abu Dhabi campus and organized regular town hall meetings for study abroad students

NYU Alternative Breaks Program ♦ *Team Lead*

New York, NY • Sep 2015 – May 2016

- Engaged in weekly team discussions of education issues and traveled to Monte Cristi, the Dominican Republic for a week-long teaching program and helped local elementary students in Monte Cristi with English writing and speaking

Digital Express Challenge, Development Bank of Singapore ♦ *Second-Prize Winner*

Shanghai, China • Jan 2015

- Applied a hypothesis-driven template called Lean Startup Experiment to test the development process of WeJar, a family financial planning platform prototype designed by my team during the competition