

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
- Dean's Honors List

Shanghai, China • Jun 2015 – Jul 2015

New York, NY • Sep 2015 – May 2016

TECHNICAL SKILLS

Web Development: React/Redux/Node.js/Express/WebGL/Sass

Databases: MySQL/MongoDB

Data Science: Jupyter/PyTorch/PySpark/R

Programming Languages: JavaScript /Python/Java

PROJECTS

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 list of open browser tabs, and the facial expressions.

Home+ Summer 2017

Designed a storytelling mobile app that allows migrant parents to record and share a bedtime story with their children at home.

HireBot Spring 2017

Built a chatbot that can analyze 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

Built a 2D spaceship battle game with C++, OpenGL and SDL2.

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 social network.

WORK & RESEARCH EXPERIENCE

Uber Advanced Technologies Group ♦ Software Engineer I

Pittsburgh, PA • Mar 2019 – Current

- 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 frontend data management and DeckGL for graphics rendering.

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.

Energio Labs ♦ Front End Developer Intern

Shanghai, China • Jan 2017 – Apr 2017

- Developed the admin management web app using React for a distributed peer-to-peer energy exchange platform to monitor user data, household electricity and smart grid performance.

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 enables serializability as well as parallel execution for partially dependent transactions.

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 education issues. 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 hypothesis-driven template called Lean Startup Experiment to test the development process of WeJar, a family financial planning platform prototype designed during the competition.