

Xiaohan Liu

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Education

Syracuse University	Syracuse, NY 13210
M.S. Computer Science	08/2019 - 05/2021
<ul style="list-style-type: none">Coursework: Natural Language Processing, Introduction to AI, Object Oriented Design, Principles of Operating Systems, Android Programming, Introduction to Database, Social Media & Data Mining, Design & Analysis of Algorithm	
Tianjin University	Tianjin, China 300350
B.S. Applied Chemistry	09/2015 - 07/2019
<ul style="list-style-type: none">Computation in Pd-Catalyzed Cross-Coupling Reaction	
Technion - Israel Institute of Technology	Haifa, Israel 3200003
Exchange Student	08/2018 - 09/2018
<ul style="list-style-type: none">Coursework: Introduction to Machine Learning	

Skills

Programming Language
<ul style="list-style-type: none">C/C++, Python, Java, HTML/CSS/JavaScript, Kotlin, Bash
Framework & DevOps Tools
<ul style="list-style-type: none">NodeJS, Express, MSSQL, MongoDB, Bootstrap, JQuery, DOM, REST, Git, Virtual Box

Experience

Amazon.com Services LLC	Seattle, WA 98109
Software Development Engineer, Identity Services	06/2021 - Now
<ul style="list-style-type: none">Implemented the package including kinds of authentication and authorization signals based on the OAuth 2.0 Framework.Created the signal handler client interface, realized the function of publishing signals to specific AWS SNS topic by encapsulating AmazonSNS client.Collected signals during post-AuthN and pre-AuthZ. Published signals to specific channel. Realized the target of detecting high risk authorization.	
Beijing PipePlus Technology Co., Ltd.	Beijing, China 100089
Software Engineer Intern	07/2018 - 08/2018
<ul style="list-style-type: none">Utilized Matrikon OPC simulation server, adjusted related parameters to generate random oilfield industrial data.Wrote scripts to test the NoSQLt database APIs, connected simulation server with database, verified the accuracy during the data transportation.Realized real-time reading, writing and viewing historical trends functions by the APIs, helped to optimize automation database management over 600 miles oil and gasoline pipelinePackaged scripts into a class, created a client by Matrikon APIs, which communicated between Matrikon OPC and NoSQLt database.	

Selected Projects

Sentiment Analysis of Presidential Candidates Twitter Comments (Repo)	10/2020 - 12/2020
<ul style="list-style-type: none">Wrote python scripts and called Twitter Developer API to collect the real time comments under the presidential candidates' tweets. Generated *.csv files with user account and comment text.Used TextBlob and nltk packages, preprocessed the text, computed the polarity as a key feature, andomized and balanced dataset.Generated histogram figures, boxplot figures, wordCloud figures etc, analyzed the most positive and negative for respective candidates .	
RGB Color Guessing Game (Demo)	7/2020 - 8/2020
<ul style="list-style-type: none">Wrote HTML files to construct the whole structure of the game page with title and comments of how to play, used CSS files to embellish the play interface.Created buttons and stripes for some player settings and gave some blocks to hold different RGB colors.Programmed in JavaScript to interact with players, designed the part of mode choice and restart, achieved the whole game logic.	