

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">Courses: NLP, 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">Coursework: 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">Course: Introduction to Machine Learning	

Experience

Amazon.com Services LLC	Seattle, WA 98109
Software Development Engineer, Identity Services	06/2021 - Current
<ul style="list-style-type: none">Implemented the package including various of authentication and authorization signals classes, based on the OAuth 2.0 Framework.Created the signal handler client interface, constructed SNS client with AWS Credential Provider to publish signals to AWS SNS topic.Designed and applied JUnit4, JUnit5 and Mockito to finish the unit tests and connectivity tests.Imported and configured the package into authentication and authorization application, realized the target of collecting signals after authentication session created.Integrated signals during post-authentication and pre-authorization, published signals to specific channel by initializing a SNS client.Sent identity service signals to risk detection platform, further helped detecting high risk action during authentication and 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.	

Skills

Programming Language
<ul style="list-style-type: none">C/C++, Python, Java, HTML/CSS/JavaScript, SQL, Kotlin, Bash
Framework & DevOps Tools
<ul style="list-style-type: none">NodeJS, Express, JQuery, JUnit5, Mockito, Docker, REST, Git, AWS SNS

Selected Projects

Sentiment Analysis of Presidential Candidates Twitter Comments (Repo)	10/2020 - 12/2020
<ul style="list-style-type: none">Called Twitter Developer API with python to collect the real time comments under the presidential candidates' tweets. Generated *.csv files with user account and comment texts.Used TextBlob to preprocess the text, computed the polarity as a key feature, generated figures, 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 with buttons and stripes instructing how to play, gave some blocks to hold different RGB colors, used CSS files to embellish the UI interface.Programmed in JavaScript to interact with players, designed the function of switching mode and restart, achieved the whole game logic.	