https://www.linkedin.com/in/lihan-hu/

Lihan Hu

646-400-3790 | lihanhu2021@gmail.com | Seattle, WA

EDUCATION

Carnegie Mellon University, Heinz College of Information Systems & Public Policy **Pittsburgh, PA**
Master of Science, Health Care Analytics and Information Technology (GPA: 3.74) *08/2019 – 05/2021*
Honors: CMU Merit-Based Scholarship, Western PA HIMSS Scholarship, 2020 GHC Student Scholarship

East China University of Science and Technology **Shanghai, China**
Bachelor of Management, Information Management and Information System (GPA: 3.88) *09/2015 – 07/2019*
Honors: National Scholarship (Top 1%), Avery Dennison Invention Scholarship, Business College Top Ten Volunteers

SKILLS AND TOOLS

Skills: Java; C++; Python; SQL; Git; Bash
Tools: S3; Lambda; SQS; DynamoDB; AWS Auto Scaling; CloudWatch; IAM; Azure; GCP; VirtualBox; CMake

EXPERIENCE

Amazon **Seattle, WA**
Alexa Automotive, SDE *07/2021 – Present*

- Designed and implemented Alexa Car-Control feature to handle requests involving units appropriately. The feature uploads user's preferred settings to Alexa cloud storage. And it resolves the correct unit from range bound inference and user's preferred unit in cloud DynamoDB or local Alexa API.
- Led and designed an interpretation data source migration for Alexa Car-Control. Evaluated three data sources regarding risks, coverage, development complexity and service performance, and designed a solution that reduces latency by 15% and enables processing complex intents. Rolled out execution plan with clear milestones that includes parallelization of 54 dev-weeks migration plan, deployment, testing, and launch.
- Cooperated and guided sister teams onboard new features to deliver consistent user experiences. Improved the team sprint development process by introducing new grooming session, stakeholders' involvement, work ranking and distribution. Increased the team velocity by 10%.

Carnegie Mellon University - Heinz College & Highmark Health **Pittsburgh, PA**
Research Assistant and Independent Study *02/2020 – 01/2021*

- Conduct a chronic kidney disease project to gain insights into the cost-effective treatments for the different stages.
- Use trajectory analysis to cluster patients over 20 years period based on 4M+ clinical and claim data to find better treatments.
- Facilitate weekly meetings with Highmark Health to communicate research updates and clarify issues and their resolutions.

Carnegie Mellon University - SCS – Language Technologies Institute **Pittsburgh, PA**
Course Developer and Teaching Assistant, Foundation of Computational Data Science *05/2020 – 08/2020*

- Designed a class project about training and deploying deep learning models for image classification on cloud GPU.
- Developed local tests and grader programs to evaluate students' submissions automatically.

ACADEMIC PROJECTS

Predict Customer Lifetime Value for an Online Greeting Card Company in R **Pittsburgh, PA**
Team Leader *Summer 2019*

- Organized data for six-month intervals and extracted 15 features covering demographics and user activities information.
- Trained an additive logistic regression model with 86% accuracy to predict consumers behavior in 6 months.
- Used *kmeans* method to cluster consumers into 4 groups and identified main characteristics of each group.

Sentiment Analysis of Different News Media in Python **Pittsburgh, PA**
Team member *Summer 2019*

- Used News API to extract information from different media about the 2020 election and preprocessed raw data.
- Performed sentiment analysis by analyzing words in each sentence to figure out the attitudes of different media.
- Visualized sentiments using matplotlib library in Python to recognize transformation and compare different media sources.