Kewei Shi

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EDUCATION

Westcliff University – Irvine Campus Summer 2025

Master of Science in Engineering Management

Northeastern University, Boston, MA Winter 2022

Master of Science in Data Analytics Engineering, GPA: 3.73

Relevant Courses: Data Models & Statistics, Data Visualization, Data Mining & Machine Learning Algorithms, Database Management, Neural Networks & Deep Learning, Deterministic Operations Research, Statistical Tests, Data ETL

Northeastern University, Boston, MA Spring 2020

Masters in Analytics, GPA: 3.87

Relevant Courses: Enterprise Analytics, Leadership in Analytics, Analytics Systems Technology

Georgia Institute of Technology, Atlanta, GA Winter 2016

Bachelor of Science in Environmental Engineering

TECHNICAL SKILLS

Programming Language: Python, R, SAS

Data Management: MySQL, NoSQL (ArangoDB, Cassandra, MongoDB), Azure Data Factory, Azure Data Studio, CosmosDB (SQL API, Gremlin API)

Analytical Tool: Tableau, PowerBI, RShiny, MS Excel, MS PowerPoint, MS Word, Overleaf

EXPERIENCE

Product Analyst Co-Op, Akamai Technologies, Cambridge, MA Jul 2021 – Dec 2021

- Retrieved network and server deployment data using SQL queries and applied statistical model to create forecast on monthly and annual server growth, accelerating capacity planning procedures
- Developed automated tool in Python scripts to read and modify historical deployment data, apply mapping and statistical model to generate capacity forecast by different business metrics, and generate reports. Tool enabled end users with historical data to generate fast analysis and forecast for the first time
- Analyzed historical network and server deployment data, presented insights on network deployment recommendations, identified potential new datacenter location to significantly improve cost-efficiency on deployment and server connectivity for tenants

Graduate Student Ambassador Jan 2022 – Dec 2022

- Served as DAE student ambassador by actively participating in virtual & in-person recruiting events, helped to promote college and program by connecting with students all over the world and sharing academic & industrial experiences
- Organized and participated in various Seattle campus events for students to build relationships, expand professional network, and successfully helped more than 5 students landing co-ops by sharing experiences
- Worked with admission teams to provide support for more than 120 perspective students on admission and registration questions, participated in orientations that welcomed more than 600 new students on Seattle campus

Graduate Teaching Assistant – Probability Theory and Statistics Fall 2019

- Mentored students in groups and on individual basis on academic materials, basic programming, and report preparation that led to students finishing weekly assignments with excellence
- Prepared problem sets and review sessions that resulted in all students successfully passing final exam and the course

PROJECTS

Used Car Sales Data Management System, Seattle, WA (Cosmos DB, Azure Data Factory) Fall 2022

- Led a four-member team to determine project scope and database design, organized regular meetings, and delegated tasks
- Built and implemented data pipeline in Azure Data Factory to pull sales data from blob storage, transform, and load transformed data into Cosmos DB document and graph databases; Built dashboards using PowerBI to show analysis results
- Implemented data refresh jobs and multi-model (document & graph); presented our design and earned an A grade for the project

Image Classification Model, Seattle, WA (Python, Deep Learning) Winter 2019

- Led a four-member team, built image classification tool using Keras deep learning API to identify unsafe sidewalk sites
- Improved model performance by nearly 30% by applying image augmentation techniques, implementing image hue and saturation adjustment tool, and adjusting model layers and activation method
- Successfully presented classification model and tested model on sidewalk images to earn an A+ for the project and course