

KAICHENG SHENG

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EDUCATION

CARNEGIE MELLON UNIVERSITY

Master of Science in Artificial Intelligence Engineering-Civil and Environmental Engineering

Selected Coursework: Autonomous Sustainable Buildings; Machine Learning and Artificial Intelligence for Engineers; Geographical information System; Introduction to Transportation System; Smart Cities.

Pittsburgh, PA

Anticipated:12/2024

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

Virtual student exchange program

Santa Cruz, CA

09/2022-01/2023

TONGJI UNIVERSITY

Bachelor of Engineering in Geological Engineering

Selected Coursework: Probability and Mathematical Statistics; Linear Algebra; Foundation of Database; Python Programming; Structural Mechanics; Rock Mass Mechanics; Construction Cost; Soil Dynamics; Ground Water Dynamics.

Shanghai, China

Graduation Date:06/2023

SKILLS

APPLICATION SOFTWARE: AutoCAD, ArcGIS, Jupyter Notebook, SQL, Visual Studio, Office

PROGRAMMING LANGUAGES: Python, C#

LANGUAGES: English (Fluent), Chinese (Native Speaker)

INTERNSHIP EXPERIENCE

MOBILITY DATA ANALYTICS CENTER OF CARNEGIE MELLON

Research Assistant On-site

• utilized GIS and web-based tools to identify essential points of interest of Pittsburgh.

Pittsburgh, PA

03/2024-05/2024

INDUSTRIAL SECURITIES CO., LTD

Industry Analyst (Intern) On-site

• Updated databases daily/weekly for the traditional energy industry in China, using WIND and Office.
• Extracted financial data from quarterly/annual reports of companies to generate evaluations for targeted companies.

Shanghai, China

03-07/2023

CHINA RAILWAY FOURTH INVESTIGATION AND DESIGN INSTITUTE CO., LTD

Assisting Engineer (Intern) On-site

• Learned the structure and construction process of the foundation pit, open caisson, and subway station.
• Attended project technical seminars, participated in site acceptance and supervised the procedure of the project.

Hangzhou, China

06-07/2022

ACADEMICAL EXPERIENCE

TIDAL LANE AND COMMUTE TIME OPTIMIZATION FOR A NEW YORK CITY ROAD

Carnegie Mellon University

02-05/2024

• Collaborated with two classmates to explore and design a tidal lane solution for an existing road in New York City.
• Developed a model based on traffic volume, number of lanes, and peak hours to calculate the potential reduction in commute time.
• Evaluated the proposed solution's environmental impact and calculated the Envision Credits earned in Envision framework.

ANALYSIS ON THE IMPACT OF OLD TOWN RENOVATION OF PEDESTRIAN ACCESSIBILITY

Tongji University

05-08/2022

• Built the 3D spatial pedestrian network model of a district in Qingdao using AutoCAD and ArcScene.
• Compared the spatial accessibility and other characteristics of the existing road network with those of the planned road network under spatial syntax and studied the feasibility of the planning scheme.

SECOND-HAND HOUSING TRANSACTION APP SIMULATOR BASED ON LIANJIA.COM DATA

Tongji University

10-12/2021

• Obtained the public information from a real estate brokerage platform through LocoySpider and imported it into MYSQL database.
• Utilized Visual Studio to design the user interface and visualize the geographical distribution of the corresponding second-hand housing made with ArcGIS add-in.