

Shijie Zhu

Learning engineer with a background in computer science passionate about delivering evidence-based educational technology.

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- <https://daniel-zhuwh.github.io/portfolio/>

SKILLS

Programming Language

Python, Java, Ruby

Machine learning

Decision Trees, kNN, Linear Regression, Neural Networks, Deep learning

Learning Science

Cognitive Task Analysis
Learning Curve Analysis
Educational Data Mining
Instructional Design

Web Development

HTML, CSS, Javascript, PHP, Bootstrap

Design & Media

Photoshop, Figma, Filmora

COURSEWORK

- Intro to Machine Learning
- Practical Data Science
- Object-Oriented Programming in Java
- Programming for Online Prototyping
- E-learning Design Principles
- Tools for Online Learning

AWARDS

- METALS Merit Scholarship 2019-2020
- National IoT Design Competition: Second Prize of the National Final 2018

EDUCATION

Carnegie Mellon University

Aug 2019 - Aug 2020

Masters of Education Technology & Applied Learning Science (METALS)

Wuhan University, China

Sep 2015 - June 2019

B.S. Computer Science and Technology

PROJECTS & EXPERIENCES

Pangolin - A facilitative learning platform for programming education

Capstone project

Jan 2020 - Aug 2020

- Researched and investigated the current programming education market.
- Designed and iterated Pangolin, a learning platform for middle school programming education.
- Wrote algorithms for some project features.

Learning website - How do induction cookers work

Coursework Project - Tools for Online Learning Jan 2020 - May 2020

- Designed and built a website for teaching how an induction cooker works.
- Used the concept of Jigsaw and collaborative learning in learning science.

Diet bot

Coursework Project - Programming for Online Prototyping

Mar 2020 - May 2020

- A course project for the course Programming for Online Prototyping.
- Designed and built a conversational SMS bot to help users keep track of their diet information, which was built in Ruby with Sinatra.

Insights From Niche: What makes a good high school in NYC?

Coursework Project - Practical Data Science Sep 2019 - Dec 2019

- Conducted text mining and data analysis based on text and other demographic data scraped from the niche.com website and gained interesting visualization and insights about the high schools in NYC.

Off-By-One Error Tutor

E-learning Design Project

Sep 2019 - Dec 2019

- Utilized E-learning design principles and conducted cognitive task analysis to design evidence-based online course module. 3 rounds of learner testing were done to refine course design and an A/B testing was done to evaluate an innovative design.