ANDREA WAN

+15102036513 • andreawa@andrew.cmu.edu • https://www.linkedin.com/in/wan-andrea/ • Pittsburgh, PA

Experience

Carnegie Mellon University

Teaching Assistant – Fundamentals of Computational Design

- Led recitations and office hours
- Assisted with grading

Promantus

- Data Analyst, Intern
 - Worked with the WELL Building Standard backend team
 - Designed a working prototype of a data visualization pipeline, starting from data cleaning, wrangling, and querying to live, interactive dashboard display
 - Utilized knowledge of SQL, Python, HTML, CSS, and Javascript
 - Used pandas, Altair, Vegas-Lite.js, Vega.js, and D3.js libraries
 - Created interactive and web-embeddable charts and graphs

Carnegie Mellon University

Outreach Instructor

Pittsburgh, PA 02/2022 – 05/2022

Pittsburgh, PA

Remote

01/2025 - Present

05/2022 - 08 /2022

• Created and delivered curriculums for K-12 Saturday programs, working with children of various ages to introduce architectural concepts through fun crafts and activities

Williams + Paddon

Architecture Intern

- Made revisions to specifications for building materials, construction materials and other project details in Revit and AutoCAD
- Assisted in 3D modelling, texturing and interior design and visualization tasks in Sketchup and Enscape

Education

Pittsburgh, PA Carnegie Mellon University Bachelor of Architecture (B.Arch) 08/2020 - Expected 2025 Fundamentals of Programming, a computer science course centered on Python Principles of Imperative Computation, a computer science course using C Introduction to Machine Learning in Design, an architecture course centered on ML algorithms for generative approaches Data Visualization, a data science course using Python libraries and Esri GIS software for mapping and interactive visualizations Generative Modelling and Advanced Scripting, courses centered on the use of Grasshopper and Python to implement computational design approaches London, UK Architectural Association Spring Visiting School Programme 01/2024 - 05/2024 London, UK University College London Summer School – Contemporary Urbanism, Culture, and Space 07/2023 - 08/2023 Projects Pittsburgh, PA Carnegie Mellon Independent Study 05/2024 - 08 / 2024 Used Python, sci-kit learn and PyTorch machine learning libraries in conjunction with Rhino 3D to create a training dataset and develop an ML model to predict line weights in 2D CAD drawings from normal map images Pittsburgh, PA Carnegie Mellon

STEAM Center of Learning

Building systems integration studio – utilized Rhino and Grasshopper for 3D modelling, including an innovative responsive façade;
ClimateStudio and Grasshopper for environmental simulations; 3D model of MEP systems using ArchiCAD; rendering using VRay

Skills

AutoCAD • D3.js • Fusion • Maya • Pandas • Python • Revit • Rhinoceros 3D • SQL • V-ray • Grasshopper • JavaScript • Twinmotion • Revit • 3ds Max • SketchUp • ArchiCAD MEP

Roseville, CA

10/2019 – 12/2019

05/2024 - 08 /2024