

Matthew J. Wei

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Education

New Jersey Institute of Technology - Newark, NJ

Expected Graduation: May 2025

B.S. in Computer Science

Minor in Applied Mathematics

• GPA 3.60/4.00 | Dean's List

Raritan Valley Community College - Branchburg, NJ

September 2021 - May 2023

A.S. in Computer Science

A.S. in Applied Mathematics

• GPA 3.80/4.00 | Dean's List

Relevant Coursework:

Programming Language Concepts | Intensive Programming in Linux | Principles of Operating Systems | Probability and Statistics | Foundations of Computer Science | Computer Networks | Generative AI | Database System Design & Management | Differential Equations | Data Science | Project Management

Work Experience

Teaching Assistant (TA) - Newark, NJ

January 2023 - Present

New Jersey Institute of Technology

- Teaching Assistant for 2 courses: CS100 (Intro to Computer Science) & FED101 (Fundamentals of Engineering)
- Lecture, teach, & tutor students on course material, grade homework & exams, assist the Professor

Website Developer - Branchburg, NJ

November 2022 - August 2023

Raritan Valley Community College

- Develop and maintain both the frontend & backend for the Raritan Valley Community College website
- Maintain the server, web pages, website functions, course catalogs, troubleshoot errors & bugs

IT Technician - Branchburg, NJ

September 2021 - August 2023

Raritan Valley Community College

- Assist students, faculty, and staff with various technology issues
- Setup & maintain labs, classrooms, printers & projectors, manage the server room, manage the college account database

Skills

Languages: Java, C, C++, Python (Data Science: NumPy, Pandas, SciKit-Learn, PyTorch, TensorFlow), BASH

Web Development: HTML, CSS, SQL, JavaScript, PHP

App Development: React Native, Swift, SwiftUI, Kotlin, Objective-C

Software/Tools: AWS, Azure, Oracle, Git, MySQL, MongoDB, AutoCAD, SolidWorks, UI/UX, Linux

Bilingual - Fluent in Mandarin

Activities & Extracurriculars

President, Computer Science Club

September 2022 - May 2023

- Elected President of the Computer Science Club at Raritan Valley Community College
- Tutor students for over 10 hours a week, lead team-based various projects, create an environment for STEM students to learn, collaborate, & grow

Other commitments: Volunteer for Rotaract (volunteered 50+ hours at Elijah's Promise Soup Kitchen in New Brunswick, NJ), Tennis Coach at Hillsborough Raider Tennis Camp (4+ years), Kumon Instructor (3+ years)

Projects

Integrating Ethics into AI with Autonomous Vehicles- Python, Machine Learning, Java, SQL November 2022 - Present

- Utilize machine learning and data science in order to implement Utilitarian ethics into the AI processor of autonomous vehicles to make the best decision in an innumerable amount of scenarios

Petri Dish Colony Counter - Python (OpenCV), Data Science, Java, SQL

August 2022 - Present

- Automate counting colonies on petri dishes in order to save time & labor of scientists by utilizing Python's OpenCV package to train data science models with image recognition & classification