Junyuan Wang

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EDUCATION

University of Minnesota, Twin Cities

Sep 2020 - May 2024

Bachelor of Science in Computer Science

SKILLS

Languages: TypeScript, JavaScript, HTML/CSS, Python, C/C++, Java, SQL, IATEX

Frameworks/Libraries: React, Next.js, Node.js, Express, Tailwind CSS

Tools & Platforms: Git/GitHub, Docker, Unix Shell, VS Code, IntelliJ IDEA, WebStorm, Netlify, Tina CMS

Databases: MvSQL

Others: API Integration (OpenAI, Spotify, MapBox GL JS)

Research Experience

 $Research\ Assistant\ |\ {\it Shortest-Path}\ {\it Finder}\ for\ UMN\ Campus\ |\ Minneapolis$

Jan 2023 – May 2023

- Integrated and rigorously evaluated six distinct path-finding algorithms to determine optimal navigation routes.
- Transformed raw OSM data, via Overpass Turbo, into a precise campus layout, enhancing map accuracy.
- Utilized Python, GeoPandas, and Matplotlib to map two campuses into a comprehensive map's graph structure.
- Conducted over 1,800 test runs (6 algorithms x 3 sets of locations x 100 runs) to ensure reliability, repeatability, and accuracy in algorithm evaluations.
- Developed an intuitive and engaging website interface using Node.js, Express, HTML, CSS, and JavaScript.

PROJECTS

ThisBlog¹ - Personal Blog Website | Online

Present

- Developed and deployed a responsive personal blog website utilizing **TypeScript**, **JavaScript**, and **Tailwind CSS**, emphasizing modern design principles.
- Incorporated Tina CMS for dynamic content management, enabling seamless edits to blog posts and pages directly on the website.
- Customized styling with Tailwind CSS to achieve an aesthetically pleasing and accessible reading experience, focusing on readability and user engagement.
- Automated deployment processes on **Netlify** for continuous integration and delivery, ensuring the website is always up-to-date with the latest content and features.

A Simple Full-Stack Website | Minneapolis

Jan 2023 – May 2023

- Developed a full-stack application with **Node.js**, **Express**, and **MySQL** for event management in a schedule.
- Enabled event creation, viewing, editing, and deletion through **CRUD** operations.
- Integrated a login system with account creation feature and unique email validation and a logout functionality across multiple pages.
- Integrated **Pug** for a sleek UI; acclaimed for distinctive CSS designs, excelling by 15%.

Language Model For Music | Minneapolis

Sep 2023 – Present

- Pioneered a personalized music recommendation system by customizing **GPT-3.5-turbo**, showcasing innovation in AI and machine learning.
- Developed and maintained a comprehensive dataset enabling the model to provide diverse music suggestions based on user inputs, covering various moods, genres, and languages.
- Integrated **OpenAI APIs** with **Spotify APIs**, creating a seamless bridge between AI-generated recommendations and Spotify's music library, delivering real-time, personalized music experiences.

Relevant Coursework with A's:

Intro to Artificial Intelligence, Internet Programming, Program Design & Developments, Intro to Algorithms & Data Structures, Machine Architecture and Organizations, Intro to Operating Systems, Intro to Computer Security, Machine Learning Fundamentals, Info Syst & Dig Transformation, Intro to Quantum Computing