Muil Yang

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EDUCATION

The University of Texas at Dallas Richardson, TX
Master of Science in Computer Science *Aug. 2024 – Present*

Korea National Open University Seoul, Republic of Korea
Bachelor of Science in Computer Science *Mar. 2021 – Aug. 2023*

Yonsei University Seoul, Republic of Korea
Bachelor of Science in Engineering *Mar. 2013 – Feb. 2021*

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Python, C/C++, Java, HTML/CSS
Frontend: React.js, Next.js, Node.js, Webpack, Babel, Three.js, WebGPU, WebXR, WebSocket
Backend: Node.js, Django, Flask, DB (SQLite, MySQL, MongoDB, Redis), WebSocket
Deployment: Docker, Amazon Web Services (EC2, S3, CloudFront, Lambda, etc.), Microsoft Azure
Tools: Git, GitHub, GitHub Actions, MS Office

CERTIFICATIONS

AWS Certified Machine Learning - Specialty Aug. 2024
AWS Certified Security - Specialty Jul. 2024
AWS Certified Developer - Associate Feb. 2024

EXPERIENCE

Software Engineer Jan. 2021 – May 2024
Midas IT (MIDASoft Inc.) *Seongnam, Republic of Korea*

- Developed *Midas Workspace*, a collaboration tool designed for architectural and civil engineers, featuring a 3D model viewer and file drive.
- Elevated the visual representation of the 3D model viewer by integrating terrain data from ArcGIS with satellite imagery, enabling accurate visualizations of buildings and their immediate surroundings.
- Enhanced functionality by implementing real-time features like screen sharing and user presence tracking using WebSocket.
- Developed common design systems and Node.js CLI tools for frontend teams, enhancing development efficiency.
- Optimized the UI development of the company's Windows desktop application by integrating Microsoft Edge WebView2, allowing seamless use of the web UI from our web services.

Research Assistant Sep. 2019 – May 2020
The University of Texas at Arlington *Arlington, TX*

- Designed and developed a flood monitoring system comprised of an embedded system and web service to monitor flood-prone areas.
- Engineered and deployed a Node.js HTTP server for collection and developed a website to visualize the data through graphs.

PROJECTS

AI Veggie Cat (Hackathon Project) Jul. 2024

- Developed an AI-based automatic food ingredient ordering service using Clova Studio, a Korean-language specialized LLM service similar to the OpenAI API, with Next.js, Flask, and Naver Cloud.

Nutrition Specs (Personal Project) Jun. 2024 – Jul. 2024

- Developed a web service for comparing nutritional information across multiple products within the same category using Next.js, Django, and Amazon Web Services (AWS). Link to NutritionSpecs
- Implemented a crawler application using Selenium, Tkinter, and the OpenAI API to collect nutritional data.

3D Model AR Viewer (Class Project) Dec. 2022

- Developed an AR application utilizing React.js, WebXR, Three.js, and Node.js to view GLTF files integrated with the surrounding environment.