

# Muil Yang

Master's in Computer Science with 3+ years of experience in software engineering, specializing in developing complex, scalable web applications, optimizing systems, and leveraging cloud technologies.

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## PROFESSIONAL EXPERIENCE

### Software Engineer

*Midas Software, Inc.*

Jan. 2021 - May 2024

- Implemented a high-performance 3D model viewer using React.js and a WebGL-based rendering engine, providing real-time interaction with complex architectural designs, reducing model sharing and review time by 40%.
- Modernized the user management service by migrating from jQuery to React.js, significantly improving security and user experience, driving 83% of users to transition within a quarter.
- Built backend RESTful services using Spring Boot for core application functionality and Node.js to deliver visualization data, such as terrain data.
- Developed an SSO system with JWT authentication, eliminating 75% of redundant logins and enabling seamless access across platforms.
- Implemented real-time collaboration using WebSocket, synchronizing 3D model views and annotations across clients to improve multi-user coordination.
- Implemented a CI/CD pipeline with Bitbucket Pipelines to automate Docker build, test, and AWS deployment, ensuring consistent and reliable releases.

## INTERNSHIP EXPERIENCE

### Software Development Engineer Intern

*Esri*

May 2025 - Aug. 2025

- Enhanced the patch metadata dashboard built with ASP.NET and MS SQL Server by refactoring the database schema to improve normalization and data integrity.
- Designed and implemented Jenkins pipelines to automate .NET desktop application patch build and packaging, supporting 4+ weekly test builds and monthly releases with minimal manual intervention.

### Research Assistant

*University of Texas at Arlington*

Sep. 2019 - May 2020

- Designed a flood monitoring system using an embedded system and web service to monitor flood-prone areas.
- Developed and deployed a Node.js RESTful API server on AWS EC2 for data collection and developed a website to visualize the data.

## TECHNICAL SKILLS

### Programming Languages

JavaScript/TypeScript, Python, Java, C#

### Front-end

React.js, Next.js, Node.js, Three.js, Webpack

### Back-end

Node.js, Spring Boot, ASP.NET, Django, Django REST framework  
SQL - MS SQL Server, PostgreSQL  
NoSQL - MongoDB

### DevOps

CI/CD - Jenkins, GitHub Actions  
Cloud - AWS, Microsoft Azure  
Docker, Kubernetes

### Technologies

Linux, Git, WebSocket, RESTful API

## CERTIFICATIONS

AWS Certified Developer - Associate  
AWS Certified Security - Specialty  
AWS Certified Machine Learning - Specialty

## EDUCATION

### University of Texas at Dallas

Master of Science in Computer Science  
GPA 3.4/4.0

### Korea National Open University

Bachelor of Science in Computer Science  
GPA 3.4/4.0

### Yonsei University

Bachelor of Science in Civil Engineering  
GPA 3.2/4.0

### University of Texas at Arlington

Study Abroad  
GPA 4.0/4.0

## AWARDS

National Merit Scholarship