

Muil Yang

Software engineer with 3+ years of experience building scalable web applications and backend services, with additional experience designing automated testing infrastructure and CI/CD pipelines in cloud environments.

PROFESSIONAL EXPERIENCE

Software Development Engineer

Esri

Sep. 2025 - Present

- Designed a Jenkins-based test execution infrastructure to trigger and control Playwright test suites for Web SDK-Desktop integration, improving platform reliability and reducing manual validation effort.
- Built a backend system for image-based regression testing using Nest.js, PostgreSQL, and a key-value store, exposing REST APIs to support daily automated execution and detect visual regressions early.

Software Engineer

Midas Software, Inc.

Jan. 2021 - May 2024

- Implemented a 3D architectural design model viewer using React.js and a WebGL-based rendering engine, providing real-time interaction with the model, reducing model review time by 40%.
- Implemented real-time collaboration using WebSocket, synchronizing 3D model views and annotations across clients to improve multi-user coordination.
- Modernized the user management service by migrating from jQuery to React.js, improving security and user experience, driving 83% of users to transition within a quarter.
- Built an OAuth-style centralized SSO system with JWT-based access and refresh tokens, reducing redundant logins by 75%.
- Developed a Spring Boot microservice to provide surrounding visualization data, such as terrain data, leveraging MongoDB to manage unstructured data.
- Implemented a CI/CD pipeline with Bitbucket Pipelines to automate Docker build, test, and AWS deployment, ensuring consistent 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.

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TECHNICAL SKILLS

Programming Languages

JavaScript/TypeScript, Python, Java, C#

Front-end

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

Back-end

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

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 3.6/4.0

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