

# Hyecheol (Jerry) Jang

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## Summary

Interested in finding optimized solution using Cloud (MS Azure) and writing understandable codes. Loves learning new technologies/languages/solutions. Experience in **backend**/frontend development, deployment/operation, and **project management**. Looking for Internship opportunity as a **software developer** or **solution architect** for **Summer 2023**. Expect to graduate in Dec, 2023.

## Education

### University of Wisconsin-Madison

Madison, WI, United States

B.S. IN COMPUTER SCIENCE; DOUBLE MAJOR IN STATISTICS; MINOR IN ENTREPRENEURSHIP

Jul. 2018 - Current

- Dean's List: Fa18, Sp19, Sp20 | **GPA: 3.9/4.0**
- Director of Technology @ Korean American Scientist Association - Wisconsin Chapter: Developed/Maintained NPO Chapter website and other useful IT tools for chapter management; responsible for various marketing, network activities, leadership board, and decision-making.

## Work Experience

### Republic of Korea Army

Busan, South Korea

SOCIAL SERVICE AGENT (SOCIAL WELFARE)

Oct. 2020 - Jul. 2022

- Serve at Wonkwang Nursing Home (Long-Term Care Facilities) to complete mandatory military duty of S. Korea

### uniQon

Seoul, South Korea

TECHNICAL LEAD

Apr. 2020 - Oct. 2020

- Use NodeJS (TypeScript) and MongoDB to develop and operate API server, web page, and admin portal
- Closely collaborate with CEO to build concrete business plans | Train Interns/Software Developers and engage in HR tasks
- Implement IT infrastructure and remote working environment with Microsoft Teams, Jira, and GitHub
- Adopt Agile software development workflow (Scrum) with weekly feedback to team/individuals | Travel frequently for business meetings and recruiting

## Projects

### KSEA-Wisconsin Event Ticket System

Madison, WI, United States

PROJECT MANAGER & BACK-END DEVELOPER

Current

- Built automated event ticket generation / admission service for the NPO | Est. Release: Nov. 2022
- Automatically send QR code with ticket information to the event participants, check ticket validity and todos during admission with officers' mobile device
- Using Azure Function, Azure Blob Storage (for static website hosting), Azure Cosmos DB, CloudFlare (CDN) to minimize bandwidth, React Native

### BusanDevelopers Event Calendar

Busan, South Korea

PROJECT MANAGER & FULL-STACK DEVELOPER

Jan. 2022

- Built web event calendar for developers community | Led project, Collaborated with one back-end developer and one front-end developer
- Used React (MUI), NodeJS, Azure Cosmos DB, ExpressJS, and ReDoc | Manually set TypeScript React environment using ESLint, Prettier, WebPack, and Babel
- Divided project into smaller milestones, manage teammates' performance, and conduct weekly meeting

### KSEA-Wisconsin Website Rebuilding Project

Madison, WI, United States

PROJECT MANAGER & DEVELOPER

Nov. 2019

- Built website for NPO Chapter | Led project, Collaborated with five developers | Used HTML, CSS, Jekyll, Git, Jira, MS Teams, Adobe XD
- Divide tasks accordingly for collaboration | Provide training resources and counter errors and problems during the development process
- Minimize operation budget - GitHub Pages to post the website; CloudFlare (CDN) to minimize bandwidth; use yaml file database for easier modification
- V2 project now launched (Est. Release: Dec. 2022) - Add admin portal (Web-based GUI), elegant design, NextJS-powered website, Serve on MS Azure

### Cloudflare Public Dynamic IP Update Script

Madison, WI, United States

DEVELOPER

Aug. 2019

- Built a script to update server's dynamic ip address to cloudflare (DDNS) | Used Bash Shell Script | 50+ GitHub Star

## Skills

**Programming Language:** TypeScript, JavaScript, Java, SQL, R, C, C#, C++, Python, Bash, Rust

**DB:** Azure SQL, Azure Cosmos DB, MariaDB, MongoDB, Redis

**Cloud Service:** Microsoft Azure **AZ-900, AI-900, DP-900 Certified**, Naver Cloud Platform, AWS, DigitalOcean (and VPS providers)

**Misc:** Linux/UNIX Server (Ubuntu, Debian, CentOS), Git, CloudFlare, React Redux, MUI (React Library), HTML, CSS, Arduino, Raspberry Pi

**Language:** English (Fluent), Korean (Native)

## Honors & Awards

### 3rd AI-Blockchain Idea Pitching Competition

Busan, South Korea

3RD PLACE AWARD

Aug. 2022

- Presentation: Bird Strike Prevention Methods at Gadeokdo New Airport Using Big Data and Machine Learning