

# 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.

## 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)

## 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.

## Projects

### KSEA-Wisconsin Event Ticket System

Madison, WI, United States

PROJECT MANAGER & BACK-END DEVELOPER

Current

- Building 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

- Successfully 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
- Effectively 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
- Divided tasks accordingly for collaboration | Provided training resources and counter errors and problems during the development process
- Successfully minimized operation budget - GitHub Pages to host; CloudFlare (CDN) to minimize bandwidth; used 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

## Work Experience

### uniQon

Seoul, South Korea

TECHNICAL LEAD

Apr. 2020 - Oct. 2020

- Used NodeJS (TypeScript) and MongoDB to develop and operate API server, web page, and admin portal
- Elaborated idea and developed products that provide "real" college application data and mentor information to prospective applicants with their high school information, keywords from extracurricular activities, and target school lists and majors
- Closely collaborated with CEO to build concrete business plans | Trained Interns/Software Developers and engage in HR tasks
- Implemented IT infrastructure and remote working environment with Microsoft Teams, Jira, and GitHub
- Adopt Agile software development workflow (Scrum) with weekly feedback to team/individuals | Traveled frequently for business meetings and recruiting

### Republic of Korea Army

Busan, South Korea

SOCIAL SERVICE AGENT (SOCIAL WELFARE)

Oct. 2020 - Jul. 2022

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

## 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