

Tim Kim (Daekyung Kim)

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WORK EXPERIENCE

PCIS P&C Insurance Systems Inc.

New York City, NY

Software Engineer

February 2022 - Present

- Built 8 new microservices with Nest.js, Apache Kafka, MongoDB, and Docker in the process of redesigning the legacy system with the automated CI/CD pipeline.
- Directly reported to the SW Vice President and Chief Solutions Architect on a daily basis.

ZeroClassLab

Remote / Seoul, Korea

Software Engineer

March 2021 - December 2022

- Led a team of 5 engineers to design architectures and develop the client side of the [TMR](#) web platform services using **Next.js**, **React.js**, **TypeScript**, and **MUI**, resulting in 15,000+ new users within 6 months since the launch.
- Improved the component reusability by 220% by integrating Atomic Design Pattern to restructure the base code.
- Led the development of [TMR Labs](#), a customizable 3D room for interior design using **React Three Fiber**, boosting the first interior designing process phase by 4 times.
- Led the design, development, and publication of [Buckey](#), a real-time barcode-scanning offline-shopping **React Native** mobile application, resulting in 75+ users at local convenience stores over the beta period of 2 months.

Aighten

Seoul, Korea

Software Developer

October 2020 - March 2021

- Led the development of [AIVEN](#), a **React Native** mobile application that suggests new names of newborns.

Signal Co., 7th Reg., 6th Infantry Division, Republic of Korea Army

Cheorwon, Korea

Sergeant, Server & Network Manager

October 2017 - June 2019

- Maintained 90% data sync rate between master/slave tactical servers in armored vehicles at Demilitarized Zone.

PROJECTS

Personal Portfolio Website [Portfolio Link](#)

Multi-collaborative Document System (Google Docs) [Github Link](#)

March 2022 - May 2022

- Designed the system architecture with Upcloud virtual machines with 5 microservices: NGINX load balancing, main Node.js API, Postfix email authentication, MongoDB database, ElasticSearch servers.
- Used Quill.js as the rich-text editor w/ server-sent events to show real time changes of texts/media to all present users while handling update-collisions with ShareDB OT algorithm.
- Improved throughput by 21% w/ Redis caching & scaling up/out virtual machines to stabilize the QoS of 3,000+ RPS w/ 95th percentile latency at 70ms in OP & 30ms in search/auto-complete requests from K6 load tests.

Merchandising Society [Project Link](#) | [Github Link](#)

August 2020 - December 2020

- Developed a customizable online merchandising web service for MS Club at Fashion Institute of Technology.
- Processed development phases from user research, low-fidelity and mid-fidelity prototypes, system requirements specification & software design document, and to the final product with 96% satisfaction from the organization.

EDUCATION

Stony Brook University

Stony Brook, NY

Bachelor of Science in Computer Science

GPA: 3.65 / 4.00, Phi Beta Kappa, Cum Laude

SKILLS

Programming Languages: C, Java, Python, JavaScript

Others: Git, React.js, React Native, TypeScript, Next.js, Figma, Nest.js, GraphQL, Apache Kafka, MongoDB, Docker

HONORS AND AWARDS

Microsoft Track 1st Place & Final Winner, JunctionX Seoul 2020 Hackathon

October 2020

- Selected as one of the 250 participants from 25 nationalities to compete & won 1st place with \$6,000 as the grand prize in a team of 6 to build a video conferencing platform for people with disabilities.

Nokia Track 1st Place, JunctionX Asia 2020 Hackathon

June 2020

- Built a fact-checking community platform for a Chrome extension as a front-end dev. in a team of 4.