

Nathan Cho

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TECHNICAL SKILLS

Languages	JavaScript, TypeScript, Python, Java, HTML/CSS, SQL, Regular Expression, R
Technologies	React, React Native, Next.js, Android, Node.js, Jest, Material-UI, NumPy, MongoDB, Docker, AWS
Other	UI/UX design, API design, CI/CD, open source contribution, user research

PROJECTS

Hackathon Team Lead Sep 2021 – Oct 2021

- Proposed and implemented **Handover** — web-based knowledge base software designed for military intranet
- Led team of 5 including engineers and designers with agile methodologies, completing the project in 5 weeks
- Arthitected the RESTful API including access management, collaborative editing and version control functionality
- Optimized build times by ~80% by dockerizing the application into 4 microservices using Docker Compose
- Winner of the Chief of Naval Operations Award (4th out of 70 teams) in the national open source hackathon

Co-founder, Software Engineer Aug 2021 – Aug 2022

- Co-founded and launched **Fuhome** — smart home (home automation) gadget e-commerce & user community
- Identified target users by conducting surveys with 100+ participants and virtual interviews with customers
- Launched and tested MVP with 50+ users, including online community and device database using Next.js

Full-Stack Engineer Feb 2016 – Jul 2018

- Designed and built solo project **Tapad** — mobile Launchpad simulator for recreating and remixing music
- Surpassed 290K+ downloads and 3,900+ reviews on Play Store and responded to 1,500+ user feedbacks
- Improved realtime audio playback performance by 400%, enabling 16-channel playback on low-end devices
- Developed a companion web application for creating custom in-app contents from audio assets

EXPERIENCE

Frontend Software Engineer *myworkbeat Inc.* Dec 2019 – Jan 2021

- Developed **sugosugo** — local gig job listing/payment platform, built using React and React Native
- Contributed 15K+ lines of code, collaborating with 3 engineers and 2 designers in 2-week sprints
- Enhanced user experience by reducing page load time to ~100ms with AWS CloudFront CDN
- Increased deployment speed and frequency by 5 times with creating CI/CD pipelines using Buddy

Software Engineer (Contract) *Hyosung Heavy Industries* Aug 2019 – Dec 2019

- Built and operated a safety inspection web application for hydrogen fuel cell vehicle charging stations
- Rolled out customizable check sheet, video upload and PDF export features used by 200+ field inspectors

Software Engineer *M+ Education Institution* May 2019 – Jul 2019

- Created a student/employee time tracking system for Android phones and kiosks, currently in production for 3+ years, managing 500+ students and 80+ employees
- Implemented a serverless SMS notification service using Firebase, handling 1K+ messages per month less than \$1
- Reduced server costs by ~95% and optimized average request latency to 50ms with client-side caching

EDUCATION

Bard College Aug 2022 – May 2024
Bachelor of Arts in Computer Science Annandale-on-Hudson, NY

Chung-Ang University Mar 2019 – Dec 2020
Bachelor of Engineering in Computer Science and Engineering Seoul, South Korea

- GPA: 3.9/4.0**, Ranked in top 10 university for Computer Science in Korea
- Study abroad at Stony Brook University (*Spring 2020*), leave due to military service (*Jan 2021 – Jul 2022*)