

Nathan Cho

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EDUCATION

Bard College

Bachelor of Arts in Computer Science

Annandale-on-Hudson, NY

Aug 2022 – May 2024

Chung-Ang University

Bachelor of Engineering in Computer Science and Engineering

Seoul, South Korea

Mar 2019 – Dec 2020

- Transferred to Bard College after completing 4 semesters and military service
- Study abroad at Stony Brook University in Spring 2020

EXPERIENCE

Lead Frontend Developer

myworkbeat Inc.

Dec 2019 – Jan 2021

Seoul, South Korea

- Launched sugosugo — a community-based gig job platform, built using React and React Native
- Collaborated with 3 other developers and 2 external designers through 2-week sprints
- Enhanced user experience by reducing latency down to ~100ms with AWS CloudFront
- Accelerated deployment by 90% with automating CI/CD pipelines on Buddy.Works

Android Developer

M+ Education Institution

May 2019 – Jul 2019

Remote, South Korea

- Created a student/employee attendance recording system for mobile and kiosks, currently managing 500+ students and 80+ employees for more than 3.5 years
- Implemented a serverless SMS service using Firebase, operating at less than \$1 per month
- Reduced costs by ~95% and average latency to 50ms with client-side request caching

Sergeant

Republic of Korea Army

Jan 2021 – Jul 2022

South Korea

PROJECTS

Handover | *React, Node.js, MongoDB, Docker, Git*

Sep 2021 – Oct 2021

- Proposed, designed and implemented Handover — secure open-source knowledge base software for military use; part of yearly hackathon held by the Korean Ministry of National Defense
- Awarded the Chief of Naval Operations Award (4th place out of 70 teams nationwide)
- Managed a cross-functional (product, engineering, design) 5-member remote team with agile methodologies, successfully completing the project in 5 weeks
- Maintained code quality by creating documentations and reviewing 90+ pull requests
- Optimized development and deployment process with dockerizing into 4 microservices and using Docker Compose, reducing build/deploy times by ~80%

Fuhome | *React, Next.js*

Aug 2021 – Aug 2022

- Co-founded Fuhome — all-in-one smart home (home automation) commerce & community
- Launched and tested MVP, including user community and device database using Next.js
- Identified target users by conducting surveys and interviews with 100+ participants

Tapad | *Android, JavaScript*

Feb 2016 – Jul 2018

- Built solo project Tapad — touchscreen based MIDI controller for Android; an easy-to-use and customizable mobile DJ tool to recreate and remix songs
- Surpassed 290,000+ downloads on Play Store with 3,900+ reviews at 4.1 out of 5
- Handled over 1,000 user feedbacks about feature requests and performance issues
- Developed a separate web app for users to add new songs, using a custom XML format

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, Regular Expression, SQL, C/C++, HTML, CSS, R

Frameworks: React, React Native, Next.js, SCSS, Android, Node.js, Jest, MUI, Tailwind, bash, pandas, NumPy, Matplotlib

Tools: GitHub, Slack, Figma, Trello, Notion, Amazon Web Services, Firebase, MongoDB, Docker, Nginx, VSCode, IntelliJ, Microsoft Office, Google Workspaces, Adobe Creative Cloud