

Nathan Cho

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SKILLS

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

PROJECTS

Software Engineer Sep 2022 – Nov 2022

- Developed **Mapple** — a local experience curator app built with Google Maps API and React Native
- Awarded **2nd place in a hackathon hosted by Google**, leading a team of 4 to win among 130 competing teams
- Designed the algorithm to rank place recommendations based on place type, location and user preferences

Technical Project Manager Sep 2021 – Oct 2021

- Proposed and implemented **Handover** — web-based knowledge base software designed for military intranet
- Winner of the **Chief of Naval Operations Award (4th out of 70 teams) in the national open-source hackathon**
- Architected the RESTful API with access management, collaborative editing and version control
- Successfully led a 5-member team for 7 weeks, organizing weekly meetings and reviewing 90+ pull requests

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 and virtual interviews with 100+ participants
- 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+ users and 3,900+ reviews on Play Store and resolved 1,500+ user feedbacks
- Improved real-time audio playback performance by 400%, enabling 16-channel playback on low-end devices
- Developed a companion web application for creating custom in-app content from audio assets

EXPERIENCES

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

- Developed **sugosugo** — a 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
- Identified page load bottleneck with automated testing and improved the latency by 800% using AWS CDN
- Increased deployment speed and frequency by 5 times by creating CI/CD pipelines using Buddy

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

- Created a time tracking system for phones and kiosks, currently used by 500+ students and 80+ employees
- Implemented a serverless SMS service using Firebase, sending 1K+ notifications for less than \$1 per month
- Decreased server expense and average latency by 90% with client-side request caching optimization

EDUCATION

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

- GPA: 4.0/4.0, Awarded full tuition scholarship

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 Computer Science universities in Korea
- Study abroad at Stony Brook University (Spring 2020), leave due to military service (Jan 2021 – Jul 2022)