

Nathan Cho

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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, Git
Other	UI/UX design, API design, CI/CD, open source contribution, user research

PROJECTS

Hackathon Team Lead	Sep 2021 – Oct 2021
<ul style="list-style-type: none">Proposed and implemented Handover — web-based knowledge base software designed for military intranetWinner of the Chief of Naval Operations Award (4th out of 70 teams) in the national open-source hackathonLed a team of 5, including engineers and designers, completing the project in 5 weeks using agile methodologiesArchitected the RESTful API, supporting access management, collaborative editing and version controlOptimized build times by ~80% by dockerizing the application into 4 microservices using Docker Compose	
Co-founder, Software Engineer	Aug 2021 – Aug 2022
<ul style="list-style-type: none">Co-founded and launched Fuhome — smart home (home automation) gadget e-commerce & user communityIdentified target users by conducting surveys with 100+ participants and virtual interviews with customersLaunched and tested MVP with 50+ users, including online community and device database using Next.js	
Full-Stack Engineer	Feb 2016 – Jul 2018
<ul style="list-style-type: none">Designed and built solo project Tapad — mobile Launchpad simulator for recreating and remixing musicSurpassed 290K+ downloads and 3,900+ reviews on Play Store and responded to 1,500+ user feedbacksImproved real-time audio playback performance by 400%, enabling 16-channel playback on low-end devicesDeveloped a companion web application for creating custom in-app content from audio assets	

EXPERIENCES

Frontend Software Engineer	<i>myworkbeat Inc.</i>	Dec 2019 – Jan 2021
<ul style="list-style-type: none">Developed sugosugo — a local gig job listing/payment platform, built using React and React NativeContributed 15K+ lines of code, collaborating with 3 engineers and 2 designers in 2-week sprintsEnhanced user experience by identifying and improving page load time to ~100ms with AWS CloudFront CDNIncreased deployment speed and frequency by 5 times by creating CI/CD pipelines using Buddy		
Software Engineer (Contract)	<i>Hyosung Heavy Industries</i>	Aug 2019 – Dec 2019
<ul style="list-style-type: none">Built and operated a safety inspection web application for hydrogen fuel cell vehicle charging stationsRolled out customizable check sheet, video upload and PDF export features used by 200+ field inspectors		
Software Engineer	<i>M+ Education Institution</i>	May 2019 – Jul 2019
<ul style="list-style-type: none">Created a student/employee time tracking system for Android phones and kiosks, currently in production for 3+ years, managing 500+ students and 80+ employeesImplemented a serverless SMS notification service using Firebase, handling 1K+ messages per month for less than \$1Reduced server costs by ~95% and optimized average request latency to 50ms with client-side caching		

EDUCATION

Bard College	Aug 2022 – May 2024
<i>Bachelor of Arts in Computer Science</i>	<i>Annandale-on-Hudson, NY</i>
Chung-Ang University	Mar 2019 – Dec 2020
<i>Bachelor of Engineering in Computer Science and Engineering</i>	<i>Seoul, South Korea</i>
<ul style="list-style-type: none">GPA: 3.9/4.0, Ranked in the top 10 universities for Computer Science in KoreaStudy abroad at Stony Brook University (<i>Spring 2020</i>), leave due to military service (<i>Jan 2021 – Jul 2022</i>)	