

# Nathan Cho

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## TECHNICAL SKILLS

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

## PROJECTS

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<b>Hackathon Team Lead</b>	Sep 2021 – Oct 2021
<ul style="list-style-type: none"><li>Proposed and implemented <b>Handover</b> — web-based knowledge base software designed for military intranet</li><li>Led team of 5 including engineers and designers with agile methodologies, completing the project in 5 weeks</li><li>Arthitected the RESTful API including access management, collaborative editing and version control functionality</li><li>Optimized build times by ~80% by dockerizing the application into 4 microservices using Docker Compose</li><li>Winner of the Chief of Naval Operations Award (4th out of 70 teams) in the national open source hackathon</li></ul>	
<b>Co-founder, Software Engineer</b>	Aug 2021 – Aug 2022
<ul style="list-style-type: none"><li>Co-founded and launched <b>Fuhome</b> — smart home (home automation) gadget e-commerce &amp; user community</li><li>Identified target users by conducting surveys with 100+ participants and virtual interviews with customers</li><li>Launched and tested MVP with 50+ users, including online community and device database using Next.js</li></ul>	
<b>Full-Stack Engineer</b>	Feb 2016 – Jul 2018
<ul style="list-style-type: none"><li>Designed and built solo project <b>Tapad</b> — mobile Launchpad simulator for recreating and remixing music</li><li>Surpassed 290K+ downloads and 3,900+ reviews on Play Store and responded to 1,500+ user feedbacks</li><li>Increased realtime audio playback performance by 400%, enabling 16-channel playback on low-end devices</li><li>Developed a companion web app that creates custom in-app contents from audio assets</li></ul>	

## EXPERIENCE

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<b>Frontend Software Engineer</b>	<i>myworkbeat Inc.</i>	Dec 2019 – Jan 2021
<ul style="list-style-type: none"><li>Developed <b>sugosugo</b> — a community-based gig job platform, built using React and React Native</li><li>Collaborated with 3 engineers and 2 designers in 2-week sprints, contributing 15K+ lines of code</li><li>Enhanced user experience by reducing page load time to ~100ms with AWS CloudFront CDN</li><li>Accelerated deployment speed by 90% with creating CI/CD pipelines using Buddy</li></ul>		
<b>Software Engineer (Contract)</b>	<i>Hyosung Heavy Industries</i>	Aug 2019 – Dec 2019
<ul style="list-style-type: none"><li>Built and operated a safety inspection web application for hydrogen fuel cell vehicle charging stations</li><li>Rolled out customizable check sheet, video upload and PDF export features used by 200+ field inspectors</li></ul>		
<b>Software Engineer</b>	<i>M+ Education Institution</i>	May 2019 – Jul 2019
<ul style="list-style-type: none"><li>Created a student/employee time tracking system for Android phones and kiosks, currently in production for 3+ years, managing 500+ students and 80+ employees</li><li>Implemented a serverless SMS notification service using Firebase, handling 1K+ messages per month less than \$1</li><li>Reduced server costs by ~95% and optimized average request latency to 50ms with client-side caching</li></ul>		

## EDUCATION

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<b>Bard College</b>	Aug 2022 – May 2024
<i>Bachelor of Arts in Computer Science</i>	<i>Annandale-on-Hudson, NY</i>
<b>Chung-Ang University</b>	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"><li><b>GPA: 3.9/4.0</b>, Ranked in top 10 university for Computer Science in Korea</li><li>Study abroad at Stony Brook University (<i>Spring 2020</i>), leave due to military service (<i>Jan 2021 – Jul 2022</i>)</li></ul>	