

Nathan Cho

ntcho13@gmail.com | [LinkedIn](#) | [GitHub](#) | [Annandale-on-Hudson, NY](#)

EDUCATION

Bard College

Bachelor of Arts in Computer Science, GPA: 4.0

Aug 2022 – May 2024

Annandale-on-Hudson, New York

- Full tuition scholarship recipient, Founder of Bard Computer Science Club, Member of Student Government

Chung-Ang University

Bachelor of Engineering in Computer Science and Engineering, GPA: 3.9

Mar 2019 – Dec 2020

Seoul, South Korea

- Study abroad at Stony Brook University (Spring 2020), leave due to military service (Jan 2021 – Jul 2022)
- Ranked in top 10 Computer Science universities in Korea

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, API design, CI/CD, Open source contribution, UI/UX design, User research

EXPERIENCES

Frontend Software Engineer

myworkbeat Inc.

Dec 2019 – Jan 2021

- Developed **sugosugo** — local gig job listing/payment platform, built using React and React Native
- **Spearheaded the initial web app launch by contributing 15K+ lines of code, reaching 1,000+ users**
- Identified page load bottleneck issue from user analytics and improved the latency to ~100ms using AWS CDN
- Streamlined deployment and testing by implementing CI/CD pipelines, increasing deploy frequency by 500%

Software Engineer Intern

M+ Education Institution

May 2019 – Jul 2019

- Created a time tracking system for phones and kiosks, **currently used by 500+ students and 80+ employees**
- Engineered a serverless SMS service using Firebase, sending 2,500+ notifications for less than \$1 per month
- Decreased server expense and average latency by 90% with client-side request caching optimization

PROJECTS

Founder

Sep 2022 – Current

- Founded start-up **work.elastic** – people data analytics platform for small to medium size businesses
- **Recruited multidisciplinary (legal, design, engineer) team of 6** from Columbia, Lithuania and United States
- Developed a machine learning algorithm that can predict employee turnover with 97% accuracy

Software Engineer

Sep 2022 – Nov 2022

- Developed **Mapple** — 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 ranking algorithm for place recommendations, seamlessly integrated with API and user experience

Co-founder, Software Engineer

Aug 2021 – Aug 2022

- Co-founded and launched **Fuhome** — e-commerce & user community for smart home devices
- Launched MVP using Next.js after conducting **user research surveys and interviews with 100+ participants**

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**
- **Directed a 5-member remote team for 7 weeks**, organizing 10+ meetings and reviewing 90+ pull requests
- Architected the RESTful API with access management, collaborative editing and version control

Full-Stack Software Engineer

Feb 2016 – Jul 2018

- Designed and built solo project **Tapad** — mobile Launchpad simulator for recreating and remixing music
- **Surpassed 300,000+ users and 3,900+ reviews** on Play Store and resolved 1,500+ support tickets
- Improved real-time audio playback performance by 400% with memory optimization, enabling 16-channel playback