

# Nathan Cho

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## EDUCATION

### Bard College

Bachelor of Arts in Computer Science, GPA: 4.0

Aug 2022 – May 2024

Hudson Valley, New York, United States

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

### Chung-Ang University

Bachelor of Engineering in Computer Science, GPA: 3.9 (transferred to Bard College)

Mar 2019 – Dec 2020

Seoul, South Korea

- Ranked in top 10 Computer Science programs in Korea, Study abroad at Stony Brook University (Spring 2020)

## EXPERIENCE

### Engineer Sergeant | Republic of Korea Army

Jan 2021 – Jul 2022

- Directed a squad of 6 combat engineers for 10 months, winning the Team of the Year Award from Major General
- Pioneered and operated a new monitoring system for tactical communication network, achieving 98% uptime

### Software Engineer | myworkbeat Inc.

Dec 2019 – Jan 2021

- Developed and launched sugosugo — local gig job listing/payment platform, built with React and deployed on AWS
- Generated initial revenue by integrating payment system, collaborating with the product owner and 2 engineers
- Improved the page response time to ~100ms using CDN, after identifying server bottleneck issue from user analytics
- Increased deployment frequency by 500% and introduced automated testing by implementing CI/CD pipelines

### Technical Program Manager Intern | Hyosung Corporation

Aug 2019 – Dec 2019

- Built and implemented a new internal web app for safety inspection, used by 30+ fuel cell EV charging stations
- Planned and executed the entire project lifecycle with agile methodologies, delivering required features in 8 weeks
- Proposed and reported employee health & safety KPIs to business stakeholders by analyzing usage data with Python

### Software Engineer Intern | M+ Learning Institute

May 2019 – Jul 2019

- Created a time tracking system for Android 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 costs by 90% and average response latency by 50% by optimizing requests with client-side caching

## LEADERSHIP AND ACHIEVEMENTS

### PeopleViz – HR data analytics platform for SMBs | Next.js, PyTorch

Sep 2022 – Current

- Recruited and managed a multi-disciplinary (legal, design, HR) team of 6 from Columbia, Lithuania and U.S.
- Built a predictive model using neural network algorithm to predict employee turnover risk with 97% accuracy

### Mapple – Local experience curator app | React Native, Google Cloud

Sep 2022 – Nov 2022

- 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, integrating Google Maps API into user experience

### Handover – Knowledge base SaaS for military intranet | React, MongoDB, Docker

Sep 2021 – Oct 2021

- Led a 5-member remote team for 7 weeks, managing schedule and communicating through 15+ weekly / 1:1 meetings
- Winner of the Chief of Naval Operations Award (4th out of 70 teams) in the national military open-source hackathon
- Architected the RESTful API including access management, collaborative editing and version control features

### Tapad – Mobile music remixer | Android, Firebase

Feb 2016 – Jul 2018

- Surpassed 300,000+ installs and 3,900+ reviews on Play Store and resolved 1,500+ tickets as a solo developer
- Reduced app crashes by 85% and enabled 16-channel audio playback by implementing memory optimization

## SKILLS

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