

# CHEOLMIN OH

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## EDUCATION

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**Boston University**, Boston, MA

Expected May 2024

BA in Computer Science

Cumulative GPA: 3.48/4.0

Relevant Coursework: Software Engineering; Operating Systems; Algorithms; Artificial Intelligence

## PROFESSIONAL EXPERIENCE

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**BU Spark**, Boston, MA

May 2023 – Dec 2023

### Software Development Intern

- Migrated website to Next.js and Vite.js, boosting load time by 30% with optimizations and caching.
- Developed RESTful API using Express.js, Next.js, and a headless CMS, integrated with PostgreSQL and Firebase.
- Reduced Firebase resource usage by 17% by optimizing application code and data retrieval.
- Updated CI/CD pipelines with GitHub Actions, cutting deployment time by 50% and boosting team productivity.
- Implemented Python scripts fetching data from 5 datasets, boosting data updates by 68% throughout the project.
- Identified security issues in the code, safeguarding user data and preventing unauthorized access to the APIs.

**Republic of Korea Air Force**, Gyeryoung-si, South Korea

Sep 2020 – Jun 2022

### Data System Engineering Lead (May 2021 – Jun 2022)

- Normalized large database using MySQL, resulting in faster data retrieval, and reducing onboarding time by 50%.
- Revamped website using JSP, improving task tracking and resource management, boosting productivity by 22%.
- Reengineered legacy Java codes to a RESTful architecture using Express.js, activating 30+ neglected APIs.
- Facilitated meetings for senior officials, including 5-star generals and National Assembly audits of state affairs.

**American University**, Washington, DC

Sep 2018 – May 2019

### Teaching Assistant

- Personalized course delivery, assessed needs, condensed, and organized materials—class average rose by 6%.
- Partnered with faculty to craft and present engaging Python and business statistics lessons to 60+ students.
- Led weekly interactive 4-hour review sessions and provided feedback on academic submissions.

## PROJECTS

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### CMS for Student Record Management

Dec 2023 – Present

- Automated backups and disaster recovery with Railway cloud, ensuring data integrity and operational continuity.
- Pinpointed South Korean academies' needs to craft software design and performance specs.
- Deployed website with Next.js/Prisma/PostgreSQL, optimizing caching for steady performance in high traffic.
- Planned shift to AWS/Azure multi-tenant databases, with the addition of SMS features.
- Slashed monthly costs from \$1000 to \$5.

### Spare-it: AI Waste Contamination Identifier

Jan 2024 – Present

- Utilized YOLOv8 model to enhance classification of recyclable objects, boosting waste sorting accuracy.
- Cooperated with Spare-it to develop a customized AI model for organizational needs.
- Reviewed 14,000+ images to classify waste types and detect contamination.

## SKILLS

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**Front-end stack:** JavaScript, TypeScript, React.js, Next.js, Vite.js, HTML, CSS, Tailwind CSS, jQuery

**Back-end stack:** Python, Node.js, Express.js, Flask, Strapi, Jest

**Database:** PostgreSQL, MySQL, MongoDB, Cloud Firestore

**Other:** Docker, Railway, AWS, Azure, TensorFlow, PyTorch, Trello, Slack, Figma

**Languages:** Korean (Native), English (Fluent)