CHEOLMIN OH

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PROFESSIONAL EXPERIENCE

Boston University Spark!, Boston, MA   May 2023 – Jan 2024
Software Engineer Intern
- Designed software solutions and collaborated with Boston City Council on tailored applications.
- Incorporated CI/CD with GitHub Actions and optimized Firebase, reducing unnecessary traffic by 17%.
- Developed API endpoints using Express.js, Next.js, and a headless CMS, improving user interactions.
- Spearheaded Docker container distribution; managed automated updates from 5 data sets using Prisma/Railway.
- Laid the groundwork for the Spring 2024 launch of the Spark Bites! with three more projects for 2024.

Republic of Korea Air Force, Gyeryoung-si, South Korea   Sep 2020 – Jun 2022
Data System Management Group – Squad Leader (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 Node.js, activating neglected APIs.
- Facilitated meetings for senior officials, including 5-star generals and National Assembly audits of state affairs.

PROJECTS

CMS for Student Record Management   Dec 2023 – Present
- Deployed a full-stack Next.js/Prisma app on Vercel, optimizing for high-volume data and scalability.
- Led product discussions with South Korean academies, shaping a tailored CMS solution.
- Slashed monthly costs from $1000 to $5 and streamlining staff operations.
- Transition to AWS/Azure multi-tenant databases, adding phone/SMS features in 2024 for better engagement.

Spare-it: AI Waste Contamination Identifier   Jan 2024 – Present
- Cooperated with Spare-it to develop a customized AI model for organizational needs.
- Reviewed 14,000+ images to classify waste types and detect contamination, in a coordinated team effort.

CNN Model for Human Audio Analysis   Sep 2023 – Dec 2023
- Attained 91.51% test and 88.76% validation accuracy in gender classification with early stopping in 15 epochs.
- Analyzed 2300 audio samples using a TensorFlow/Keras CNN, classifying gender and age.
- Adapted spectrograms, Mel-spectrograms, and MFCCs for detailed audio feature extraction.
- Identified age classification challenges, prompting dataset expansion and computational optimization for progress.

EDUCATION

Boston University, Boston, MA   Expected May 2024
BA in Computer Science

American University, Washington, DC   Transferred May 2019
International Studies Major

ADDITIONAL

Technical Skills: Proficient in JavaScript, TypeScript, Node.js, Python, Docker, React/Vite, Next.js, Express.js, Git, Firebase, PostgreSQL/Railway, Trello, Slack, HTML/CSS/jQuery; Knowledgeable in Java, Spring, Expo/React-Native, MongoDB, AWS, Azure, Machine learning (TensorFlow, Keras), Figma
Languages: Korean (Native), English (Fluent)
Interests: Tennis, Cooking, Golf, Netflix, Traveling, ML/AI