HYUNJE KIM
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SKILLS

- Languages & Frameworks: HTML, CSS, Javascript, Typescript, Angular, Next.js, Node.js, Spring Boot
- Databases & Cloud: PostgreSQL, MongoDB, AWS (EC2, S3, RDS, IAM, Cognito)
- Tools & Technologies: Chrome DevTools (Lighthouse), Agile, Swagger, Postman, JPA, Jasmine, Karma, Cypress, JaCoCo, JUnit, Mockito, H2, Maven / Gradle, JWT, JSON, Docker, SonarQube, Jira, Git, CI/CD (Github Actions), HuggingFace, Wordpress

EXPERIENCE

Full Stack Engineer   **June 2024 - July 2025**
Antra, Inc. – Sterling, VA

- Developed a microfrontend internal system for learning management and ticket management with Angular 18, Spring Boot, and AWS services.
- Designed complex forms and reusable components using Angular Reactive Forms, with custom validators and dynamic error messaging to boost user experience, achieve user satisfaction rate of 87%.
- Improved Angular application performance through lazy loading, OnPush change detection, and bundle optimization techniques to minimize unnecessary re-renders and reduce load times by 35%.
- Implemented HTTP interceptor to automatically attach JWT tokens to outgoing API requests and handle authentication errors, streamlining secure communications.
- Managed global state using NgRx and coordinated asynchronous operations with RxJS operators, reducing server load by 31%.
- Implemented secure authentication using AWS Cognito, issuing JWT tokens to authenticate users and authorize protected routes via Spring Security and IAM roles.
- Developed RESTful APIs using Spring Boot and following best practices with DTOs, service-layer abstraction, centralized exception handling using controller advice, and documentation using Swagger.
- Implemented unit tests for the frontend using Jasmine and Karma (84% coverage) and for the backend using JUnit (85% coverage), along with end-to-end testing with Cypress to ensure user flow stability and reduce production bugs and integrating SonarQube to ensure code quality.
- Integrated PostgreSQL hosted on AWS RDS for data persistence, leveraging Spring Data JPA for efficient query management and pagination.
- Automated CI/CD pipelines leveraging GitHub Actions for building, testing, and deploying across multiple environments, streamlining development workflow and reducing deployment overhead.

Full Stack Engineer   **November 2023 - May 2024**
ORA Co. – Blacksburg, VA

- Developed a health and fitness platform connecting users with personalized influencer content, featuring AI-powered recommendations using vector embedding and web scraping with Puppeteer to deliver customized wellness guides.
- Migrated Next.js application from version 13 to 14 and integrated TypeScript to enhance code readability, maintainability, and scalability across the codebase, resulting in 18% faster load times and reducing runtime errors during development.
- Integrated AI chatbot with vector embedding and PostgreSQL for semantic search capabilities, enabling contextual responses and improving user engagement through content recommendations, achieving user satisfaction rate of 79%.
- Collaborated with the design team to create responsive front-end features utilizing Tailwind CSS and modern UI libraries Shadcn and Material UI for rapid development and creating intuitive user interfaces to enhance overall user experience.
- Improved accessibility by implementing semantic HTML, ARIA attributes, and proper tab indexing to support keyboard navigation.

LEADERSHIP EXPERIENCE

Technical Lead   **January 2024 - May 2024**
BraveSouls – Blacksburg, VA

- Spearheaded the design and development of a full-stack senior project management platform for Virginia Tech's CS faculty, enhancing collaboration and project tracking for students and professors.
- Led end-to-end implementation including secure RESTful API development, Docker-based containerization, cloud deployment, and Agile project management to ensure scalable, user-friendly delivery.

Undergraduate Teaching Assistant   **May 2023 - May 2024**
Virginia Tech – Blacksburg, VA

- Supported instruction for the following courses: Apple Mobile Software Development, Intermediate Software Design, and Introduction to Problem Solving in Computer Science.
- Assisted with course material preparation, led student discussions, and provided one-on-one support during office hours.

Webmaster   **July 2022 - June 2024**
Korean-American Scientists and Engineers Association – Blacksburg, VA

- Developed and maintained the official website for the Virginia Chapter of the Korean-American Scientists and Engineers Association (KSEA) utilizing WordPress as the CMS to deliver upcoming events, notices, and to accept membership applications. .
- Collaborated with Virginia Tech's backend infrastructure team to deploy on an internal clustered server via GitLab CI/CD pipelines.

EDUCATION

Virginia Tech – Blacksburg, VA   **May 2024**
Bachelor of Science in Computer Science