Hansol Lee

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EDUCATION

Oregon State University   Corvallis, OR
Bachelor of Science in Computer Science   *Expected Dec. 2024*
GPA: 4.0

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, SQL (Postgres), HTML/CSS
Frameworks: React, Node.js, Express, Sequelize, Spring Boot, Hibernate, JUnit 5
Developer Tools: Git, Docker, AWS
Other: Agile Methodology, Verification, Validation, Unit and Integration Testing, Data Structures and Algorithms, Usability Engineering, Relational Databases

PROJECTS

MyHealthCare | *JavaScript, React, Node, Express, Sequelize, PostgreSQL*
- Collaborated with a team of 4 to develop a full-stack database-driven web application for a personalized wellness app to help users track their health through biometric analysis using JavaScript.
- Implemented a REST API applying MVC architecture to handle and serve CRUD operations in a maintainable and extensible manner with a focus on software quality.
- Led daily standups to facilitate communication between front/back-end teams, streamlining integration and reducing debugging time.
- Achieved 1st place in the New Student category at the Oregon State Univ. 2023 Winter Hackathon.

DreamScape.ai | *Java, Spring Boot, JavaScript, React, Docker, AWS*
- Developed a full-stack web application that allows users to visualize and log their dreams through an interactive AI-driven platform.
- Engineered a backend service, leveraging RESTful APIs and microservice architecture to integrate the OpenAI GPT-3.5 and DALL·E 3 models into DreamScape.ai.
- Dockerized the server component and deployed a containerized app on an AWS EC2 instance.
- Co-developed and integrated microservices into application, employing Agile methodologies and software QA techniques with JUnit 5 and Mockito.

seqWise | *Java, Spring Boot, PostgreSQL, JavaScript, React, AWS*
- Designed a full-stack MVC web application to analyze and persist data of short nucleotide sequences.
- Inspired by previous challenges to address the lack of effective aptamer specific sequence analysis tools.
- Developed a REST API with Spring Boot and PostgreSQL to compute and persist experimental data.
- Created a graphical user interface with React to make queries and visualize motifs in datasets.
- Planned deployments on AWS Elastic Beanstalk, AWS RDS, and Netlify for a scalable infrastructure.

Web Portfolio | *HTML, CSS, JavaScript*
- Built a personal web portfolio from ground up with HTML, CSS, Bootstrap, and JavaScript.
- Implemented a responsive design for mobile and web viewports to provide a consistent user experience.