Hansol Lee

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Education

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

Technical Skills

Languages: Java, Python, JavaScript, C, SQL (MySQL, Postgres), HTML, CSS
Frameworks: React.js, Node.js, Express, Spring Boot, Hibernate, JUnit 5
Developer Tools: Git, Docker, AWS, Bash
Other: Agile Methodology, Unit Testing, Integration Testing, Data Structures and Algorithms, Usability Engineering, Unix, Linux, Operating Systems, Cloud Architecture

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 code quality.
- Led daily standups to facilitate communication between front/back-end teams across time zones, streamlining integration and reducing debugging time.
- Learned full-stack JavaScript in preparation and placed 1st at the 2023 BeaverHacks Winter Hackathon.

DreamScape.ai | *Java, Spring Boot, JavaScript, React, Docker, AWS*

- Developed and deployed a full-stack web application that allows users to visualize and log their dreams through an interactive AI-driven platform using React.
- 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.
- Co-developed and integrated microservices into application, employing Agile development and software QA techniques with JUnit 5 and Mockito.
- Dockerized the server component and deployed a containerized app on an AWS EC2 instance.

seqWise | *Java, Spring Boot, MySQL, 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 MySQL to compute and persist experimental data.
- Planned deployments on AWS Elastic Beanstalk and AWS RDS for a highly scalable backend.

Experience

Junior Scientist Nov. 2021 – Nov. 2022
Dotquant LLC *Seattle, WA*

- Quickly learned and adapted new technologies at a fast-paced startup to achieve a 30% increase in time and material efficiency of manufacturing process under minimal supervision despite ambiguity of goals.
- Took ownership of discovery pipeline and rapidly characterized several clinically significant RNA and ssDNA aptamers, leading to successful execution of subcontract projects for industry customers.