Thummim Jung

Cell: 425-628-0783
durimjung97@gmail.com
Seattle, WA 98121

Education

Brigham Young University / Provo, UT
Graduation Date: 12/2023
Major: Bachelor of Science, Computer Science
Relevant Coursework: Computer Systems, Data Structures, Discrete Structure, Web Programming, Algorithm Design & Analysis, Computational Theory, Adv. Software Engineering, Artificial Intelligence, Blockchain Technologies, Test-Verification-and-Analysis. Machine Learning

Technical Skills

Programming Skills:	Java (4yrs), C++ (3yrs), Python (2yrs), C (1yr), JavaScript, SQL
Operating System:	Windows, Linux, Unix, OSX, z/OS, Android
Software and Technologies:	Git, Jenkins, ClearCase, Perl, JUnit, Docker, PyTorch, Tensorflow,
	Dafny, R, Shell Scripting, MongoDB, D3.js, React, Node.js, CSS

Experience

Software Engineer Intern, May 2021– December 2021
IBM - Q Replication in Database and AI / San Jose, CA
- Participated in the new release of IBM Replication and attended weekly scrum meetings with IBM team in China
- Developed automation scripts using Jenkins for CI/CD pipeline, improving the efficiency of software testing
- Fixed over 30 Perl test cases on Linux, Unix, Windows, and z/OS improving data replication testing for clients

Web Developer, April 2022 – January 2024
BYU Studies - Brigham Young University
- Developed a new website leveraging technologies such as React, AWS Lambda, API Gateway, S3, RDS
- Implemented website APIs using AWS Gateway, ensuring seamless integration between frontend and backend
- Authored documentation on website development workflows and maintenance procedures, utilizing GitHub

Teaching Assistant, September 2020 – December 2020
Computer Systems - Brigham Young University
- Assisted over 200 students in understanding cache memory on computer systems architecture.

Projects

Family Tree Android Application
- Engineered a full-stack Android application, integrating both client-side and Java server components
- Designed and executed comprehensive unit tests to validate functionalities and ensure reliability
- Crafted intuitive UI/UX elements and enhanced application usability and user experience

Implement Constant Propagation in Compiler Design using Java
- Implemented constant folding for a subset of Java and ensuring functional correctness through black-box testing
- Developed a constant propagation class to construct the control flow graph and perform reaching definitions
- Executed white-box decision coverage testing, utilizing mocks and Jacoco to achieve required coverage metrics