

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, Data Science, Algorithm Design & Analysis, Computational Theory, Adv. Software Engineering, Artificial Intelligence, Blockchain Technologies, Test-Verification-and-Analysis. Machine Learning

Technical Skills

Programming Skills: Java (5yrs), C++ (3yrs), Python (3yrs), C (1yr), JavaScript, SQL

Operating System: Windows, Linux, Unix, OSX, z/OS, Android

Software and Technologies: Git, Jenkins, ClearCase, JUnit, Docker, PyTorch, Tensorflow, dplyr, ggplot2, Dafny, R, GeoJSON, QGIS, Shell Scripting, MongoDB, D3.js, React, Node.js

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

Projects

Washington Covid-19 Case Map

- Implemented interactive mapping using MapboxGL JS library to visualize COVID-19 data
- Dynamically loaded geojson data and rendered choropleth map with legend indicating case density ranges

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