Billy (Jeongbin) Lee

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EDUCATION

Dickinson College   **Carlisle, PA, U.S.**
Bachelor of Science, Computer Science   Expected May 2023
- **Relevant Courses:** Tools and Techniques for Software Development, Data Structure and Algorithms, Analysis of Algorithms, Operating Systems, Database Systems, Principle of Object-Oriented Design, Large-scale and Open-Source Software Development, Linear Algebra

LANGUAGES & TECHNOLOGIES

Programming Languages: Java, JavaScript, C/C++, SQL, Python, Ruby
Framework/Tool: Git, Swagger, Spring Boot, MERN, Docker, Ruby on Rails, MySQL, VirtualBox, Unix, Jira
Language Proficiencies: English, Japanese, Chinese, Korean

EXPERIENCES

Box, Inc.   **Redwood City, CA**
Software Engineer Intern (Enterprise Activity Management Team)   June 2022 – Aug 2022
- Created a new endpoint for Box's Groups API to improve scalability by 200% and provide functionality with pagination and search query parameters for the new admin console page **- deployed to production for internal use.**
- Integrated existing policy sets on Permissions PDP and complementary integration tests to restrict access to Groups API resources for authorized admins.
- Worked through the full layers of Groups domain service to provide new controller, service, and repository methods for handling new endpoint request and collaborated with front-end and product team to optimize endpoint design.
- Utilized Box's external libraries: Credence, to deliver convenient and secure access to relational data, Monaco Framework, to provide exception handling and in-depth logging services in API calls.
- **Box Hackathon Customer's Choice Winner:** produced the presentation demo for the win.

Tsubaiso   **Tokyo, Japan**
Software Developer Intern   June 2021 – Nov 2021
- Enhanced Tsubaiso API user experience by generating Swagger documentation for 10+ Tsubaiso Ruby on Rails APIs on Apipie by creating and modifying Ruby and YML scripts.
- Refactored and modularized the source code of Tsubaiso ERP to improve code's readability and performance by 50%.
- Worked with a team of 5 members on improving new versions of Tsubaiso ERP and PSA by fixing 5+ defects such as inaccurate alignment of numbers in financial ledgers output in the front-end and false ordering of payment schedule lists.

Dickinson College   **Carlisle, PA**
Teaching Assistant   Jan 2022 – May 2022
- Conducted academic tutoring to enhance 20+ students' understanding of CS materials and guided course assignments.
- Collaborated with professor in coursework planning to facilitate transition into remote environment for student engagement.
- Assisted professors with homework marking and provided relevant feedbacks to students.

PROJECTS

SusTrip (Sustainable Trip) *[https://www.sustrip.tech/]*
- A full-stack web application for tracking personal carbon footprints where users can plan a trip through the OpenStreetMap interface along with their desired transportation method and the given carbon emission data is calculated and recorded.
- Built with the Convex platform, written in JavaScript, TypeScript and React.js and is ran on the Next.js framework.
- Integrated Auth0, a user authentication and authorization platform, for smooth personal use and tracking.

NFT Royalty Smart Contract *[https://devpost.com/software/smart-contracts-and-royalties]*
- Won First Place in Best Use of Gear Technologies for successful implementation of NFT royalty features
- Wrote functions enabling percentage return to the original creator of NFT as a form of royalty using Rust
- Successfully implemented and deployed the new smart contract program on Gear's development platform

Built-From-Scratch OS *[https://github.com/miyu386/OperatingSystem]*
- A rudimentary operating system written in C language with multiprogramming, time-sharing, and command line interface features.

FarmData2 *[https://github.com/DickinsonCollege/FarmData2][commit link]*
- Implemented front-end services that enable logging crops and livestock data using HTML, CSS, Vue.js
- Collaborated with Dickinson College farm to conduct product planning to implement new functionality to the project
- Tested the farmOS API and identified improvable API design