Youngwoo Lee

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TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL, HTML, CSS, SASS, VBA, Java
Technologies: React, Firebase, Node.js, Redux, MongoDB, PostgreSQL, GraphQL, Excel, Access, Git
Certifications: Jovian Data Structures/Algorithms, Scrimba Advanced React, Microsoft MOS Excel 2016

EXPERIENCE

Front-End Developer Intern   Sep. 2022 - Dec. 2022
Dream Suites   *Toronto, ON*
- Designed responsive main Dream Suites website using Figma in iterative process with the rest of the team
- Developed webpage from ground up by building custom components using HTML and CSS on a WordPress Framework
- Developed custom widget using JavaScript and CSS to interface with Hostaway REST API, allowing users to book directly from the hotel webpage and improving overall booking rates by 15%

Engineering Intern   Sep. 2021 - Dec. 2021
Nissan Canada   *Toronto, ON*
- Streamlined vehicle allocation process by developing VBA macros to automate hours long vehicle allocation tasks, reducing working hours spent on tasks by an average of 45 min while significantly reducing chance of human error
- Used Python PyXll library to automate Excel report generation, eliminating an hour long bi-weekly task

Lithium-Ion Battery Research Assistant   Jan. 2021 - Apr. 2021
University of Waterloo   *Waterloo, ON*
- Conducted modelling and analysis of air pollution data over 10-year span by writing Python scripts to detect and filter unwanted outliers
- Co-authored 2 research papers on Li-ion and H-fuel cell technologies under Prof. Michael Fowler

Network Engineering Intern   Jun 2020 - Aug. 2020
Rogers Communications   *Brampton, ON*
- Lead the development of a relational database using Access to centralize data for over 2000 network towers previously held in locally-stored Excel files to increase team wide efficiency
- Built relational database schema from ground up to 1NF standard using raw network tower data
- Developed front-end UI and SQL queries to handle filtering, searching, and editing of data to reduce user input error and improve ease of data access

PROJECTS

TypeTrainer   Nov 2022 - Present
- Created React.js web application to test and improve users typing speed by prompting users to type out randomly generated paragraphs from random word generator API
- Use Firebase Auth REST API and NoSQL database to store user profiles and performance data

IGem Biotech Web Developer   Jul. 2022 - Nov. 2022
- Developed Wiki website using React, Bootstrap, and Sass with key accessibility features like text-to-speech, dark mode toggle, font size adjustment, and search bar to present IGem Waterloo research findings
- Won gold medal at IGem competition in Paris, France with full marks on website accessibility and features

EDUCATION

University of Waterloo   Apr. 2025 (Expected)
Bachelor of Applied Science, Chemical Engineering
- **Relevant Courses**: Data Structures and Algorithms, Numerical Methods for Process Analysis