Youngwoo Lee

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Summary of Skills

Web Development: React.js, Node.js, JavaScript, HTML, CSS, SCSS, MongoDB

Programming Skills: Python (Pandas, NumPy, TensorFlow), VBA, SQL, Git, Bash, MATLAB

Technical Skills: Excel, Access, Photoshop, AutoCAD, SOLIDWORKS, COMSOL, Simulin

Projects

Front-End Web Developer   **Jun 2022 - Present**
iGem Design Team, University of Waterloo
- Core design team member responsible for iGem's 2022 React.js-based wiki website for fall competition
- Closely collaborating with 2 other developers and a UX designer using software like GitHub and Zoom
- Example: previous wiki website for 2021 iGem competition: https://2021.igem.org/Team:Waterloo

Portfolio Website   **May 2022 - Jun 2022**
- Independently developed portfolio website using React.js JavaScript library
- Implemented CSS techniques Grid and Flexbox to make website adaptable to various
- Designed responsive web components using JavaScript Arrow Functions and useState hooks

Experience

Vehicle Planning Intern   **Sept 2021 - Dec 2021**
Nissan Canada, Office Location: Remote
- Worked alongside Vehicle Planning team to develop VBA macros for automating repetitive tasks in Excel
- Employed algorithms like binary search to shorten hour-long manual allocation tasks into sub 2 second button presses, all while eliminating possibility of human error and flagging any irregularities
- Demonstrated initiative and forward-thinking by shadowing coworkers, analyzing their workflow, and coming up with and executing project ideas to make their work easier

Undergraduate Research Assistant   **Jan 2021 - Apr 2021**
University of Waterloo, Engineering 6 Building
- Co-authored 2 li-ion battery and fuel cell related research papers working under Prof. Michael Fowler
- Modelled thermal and electrical properties of battery pack using Simulink and SOLIDWORKS to determine effectiveness of new SIGMAclad 60 material as an aluminum replacement in busbars
- Used MATLAB and Python libraries NumPy and PyTorch for analysis of air pollution simulation data

Network Technologist   **Jun 2020 - Aug 2020**
Rogers Communications, Office Location: Remote
- Merged various Excel trackers into cohesive Access database to boost efficiency for network team
- Developed forms, reports, and SQL queries to create a user-friendly and powerful Front-End environment
- Designed algorithm to identify 4000 cell tower data records with inconsistencies, scrutinized civil engineering documents like I&M reports and tower blueprints to validate these records

Education

Candidate for BASc in Honours Chemical Engineering   Sept 2019 - Apr 2025 (Expected)