

Donguk Oh

Full-stack Web Developer / .NET Developer

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Profile

Experienced in Windows-based manufacturing execution system (MES) development, with a year of freelance experience at a large MES development company in South Korea. Expanding my expertise as a full-stack web developer, utilizing the MERN technology stack and Spring Boot framework. Strong at debugging and problem-solving.

Skills

- **C# .NET**
- **Java Spring boot**
- **React**
- **Oracle**
- **MySQL**
- **RESTful API**
- Node JS
- MongoDB
- Python
- Express
- Tailwind CSS
- MUI
- Azure
- Vercel
- GitHub / GitLab

Work Experience

.NET Developer

SysoIT – Seoul, South Korea

01/2022 – 02/2023

Successfully completed a project to develop a semiconductor manufacturer's MES program using C# .NET framework WinForms.

- Developed and integrated a unified system to manage order processing, material management, production, and sales for semiconductor manufacturing processes with production facilities.
- Collaborated with the team to resolve multiple system conflicts, maintaining ongoing communication with clients to implement the maximum possible new requests.
- Developed 40% of the data processing and report automation capabilities for ordering, production, and quality control processes of products. Enhanced chart and documentation generation by improving data processing, resulting in a speed increase of over 10%.
- Started without background knowledge of C++ and C#, but handled tasks with strong searching and problem-solving capabilities.
- Independently developed and applied a model for sorting and styling charts, dialog structure, and data processing methods, achieving a speed improvement of more than 30% without collisions with other functions.
- Maximized utilities provided by DevExpress and resolved version differences for Excel functions to ensure a consistent user experience.
- Converted 200+ database queries from Oracle to MySQL, resulting in a speed improvement of more than 20% for some queries.

Technology used: .Net Framework (WinForms), DevExpress, Oracle, MySQL

Other Experiences

Hack the Change 2022 Hackathon

11/2022

Developed an educational platform that enables educators to upload lessons and quizzes, making quality knowledge accessible to underprivileged populations through a mobile app.

- Allows educators to upload lessons with flashcards and quizzes, which are automatically deployed to a mobile app.
 - Users can access various lessons and take quizzes to assess their learning.
 - Overcame challenges such as routing issues, styling, and asynchronous issues with React Native.
 - Future plans include enabling offline access to learning modules for users with limited internet access.
 - Built using Spring framework, Java backend, Next.js for desktop input, and React Native for mobile app development.
 - Link: <https://devpost.com/software/infinite-classroom>
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Personal Projects

Portfolio

- My portfolio website that creates a relaxed atmosphere while showcasing my skills, projects, and experiences.
- Interactive sections for profile, projects, skills, contact, and blogs content including two tutorial blogs about the .NET framework.
- Responsive web app optimized for PC environments, built with React, Tailwind CSS, and deployed on Azure Web service.
- Link: <https://www.don5at.com/>

Paste It

- A Windows application that saves and manages clipboard history, allowing users to access and maintain copied text across programs with a sticky note-style pop-up.
 - Saves clipboard history as a persistent pop-up window, accessible at all times, and can be registered as a startup program.
 - Uses assigned shortcuts to save copied text from all programs running on Windows OS, built using WPF in the .NET Framework 4.7.2, XAML, and Visual Studio 2019.
 - Overcame challenges of reading shortcuts while the program runs in the background and avoiding conflicts with existing OS shortcuts.
 - Future plans include streamlining the process by enabling users to access and select desired text from the entire clipboard history through a unique pop-up window.
 - Downloadable at the Projects menu of my portfolio webpage.
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Education

SAIT (Calgary, AB) / Software Development Diploma

May 2021 – December 2022