




# EMRE BENGU

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## WORK EXPERIENCE

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### Junior Engineer

Department of National Defence

September 2023 – Present

- Led the migration of a map initially created in Microsoft Visio to Qualiware, leveraging the DND AF Framework to enhance efficiency and accuracy. Developed a survey website using JavaScript, designed to retrieve data from multiple Excel spreadsheets; implemented features for storing respondent data in an SQLite database.

### Enterprise Architecture

Statistics Canada

May 2022 – April 2023

- Streamlined product analysis process by designing a comprehensive PowerBI report and creating a PowerApps application. Facilitated detailed drill-down view for enhanced examination of data on Excel sheets.





## TECHNICAL SKILLS

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- **Languages:** Java, Python, HTML/CSS/JavaScript, C/C++, SQL.
- **Frameworks:** Express JS, ReactJS, Tailwind CSS, Flask.
- **Tools:** Burp Suite, Git, Linux, Neovim, VMs, Bash Scripting, Docker, Qualiware, Power BI, Power Apps, Jira, Sparx.

## PROJECTS

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- **Portfolio Website** : Designed and developed a dynamic personal website leveraging HTML5, ReactJS, and Tailwind CSS, showcasing a fully responsive design that delivers an exceptional user experience across all devices.
- **Client-Server TCP Chat** : Developed a sophisticated TCP chat application in C++ enabling real-time communication between users through the implementation of TCP sockets, demonstrating proficiency in network programming and client-server architecture.
- **System Monitoring** : Developed a comprehensive C++ monitoring tool using the Poco library and Linux system calls to track and log CPU and memory usage in real-time on Linux systems.
- **Binary Tree** : Developed a binary tree data structure in C, implementing node creation, parent-child relationships, and leaf identification to facilitate efficient hierarchical data storage and manipulation.

## EDUCATION

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**Honours BSc Computer Science with CO-OP** University of Ottawa

September 2020 – December 2024

- **Relevant Courses:** Data Structures and Algorithms, WWW Structures, Techniques and Standards, Operation Systems, Introduction to Data Communications and Networking, Design and Analysis of Algorithms.

## LANGUAGES

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- **English** - Native or Bilingual Proficiency
- **Turkish** - Native or Bilingual Proficiency
- **French** - Professional working Proficiency