

# Pranjwal Singh

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## EDUCATION

### University of Waterloo

*Bachelor of Computer Science Honors*

Coursework: Designing Functional Programs, Linear Algebra, Probability

Waterloo, ON

*Sep. 2025 – Apr. 2030*

## EXPERIENCE

### CJCR IT Operations & Applications Development

*Applications Development Intern*

June 2025 – Aug. 2025

*Rheinmetall, St-Jean, QC*

- Built **Power Apps** applications for reporting dashboards, audit tracking, and management of cadet-issued electronic assets, integrating **Dataverse** and **SQL** tables, coding in **Power Fx**, and designing **UI/UX**; delivered MVPs to stakeholders and national staff through formal presentations.
- Contributed to a **Vue.js** web application used to organize all activities across the program (used by **1000+ program staff** nationwide); created new pages, and initiated and implemented a real-time website notification system using **SignalR**.
- Assisted in the **.NET** backend, introducing a new entity to store notifications, setup updates to stakeholders with **SignalR Hubs**, and developed **RESTful APIs** supporting asset tracking and reporting.
- Participated in **Agile Scrum/Kanban** team processes, collaborating on sprints, retrospectives, and iterative feature development across a nationwide IT team of **55+ members**.
- Gained exposure to **Microsoft Azure DevOps**, using it for version control, code reviews, and task assignment across the team.
- Developed and maintained **Power Automate** approval flows to streamline operational processes for the team.

### Ericsson R&D

*Digital Transformation Intern*

June 2024 – Aug. 2024

*Ottawa, ON*

- Monitored and reported on software **KPIs** from **Jenkins CI/CD** pipelines, evaluating overnight cluster runs according to pmCounters, diagnosing failures, and submitting tickets using internal Ericsson tools.
- Assisted in containerized environments using **Kubernetes and Docker**, including basic exposure to **Rancher UI** for cluster management and orchestration.
- Contributed to data visualization and monitoring using dashboards to track performance metrics on **Grafana**.
- Gained foundational understanding of telecom systems, including radio frequencies, beamforming, cluster architecture, signal processing, TCP/UDP protocols, and OS-level interactions.

## SKILLS

Languages	Python, Kotlin, C#, JavaScript, TypeScript, HTML/CSS, Power Fx
Libraries/Frameworks	React, Vue.js, Tailwind CSS, Jetpack Compose, FastAPI, .NET, Unity, Numpy, Pandas, Matplotlib, Framer, Power Apps, SignalR
Tools and Platforms	Supabase, Vercel, Render, MS Azure DevOps, GitHub, Sourcetree, Jira, Docker, Jenkins, Agile/Scrum/Kanban
Databases	PostgreSQL (entity modeling), Dataverse
Spoken Languages	English, French, Hindi

## PROJECTS

### Personal Portfolio Website

*Developer*

2025

- Designed and developed a responsive portfolio site using React and TailwindCSS
- Deployed on GitHub Pages with CI/CD workflows

## **mPOS System**

2025

### *Team Project*

- Built an Android-based mobile point-of-sale system with NFC Tap-to-Pay features
- Integrated Jetpack Compose frontend with FastAPI backend and PostgreSQL