

Maneesh Wijewardhana

☎ (905) 462-2312 | ✉ m.mwijel@proton.me | 🏠 wijeproject.com | 📱 ManeeshWije | 🌐 maneeshwije

Work Experience

Tulip Retail

Kitchener, ON, Canada

SOFTWARE DEVELOPER INTERN

January 2024 - August 2024

- Reduced onboarding and maintenance effort by 50% by designing and developing intuitive admin interfaces for the modular form builder "Customer Capture V2" using React and PHP, making form configuration self-serviceable
- Enabled precise CRM searches in the Clienteling app by integrating customer data into Apache Solr search engine, allowing clients to refine results based on outreach history
- Improved data integrity in a multi-million record CRM system by optimizing SQL queries for better performance and creating queries to resolve duplicate records
- Eliminated manual Git SHA searches by prototyping a Terraform parser tool using Node.js, extracting deployment metadata from infrastructure code to accelerate debugging workflows for engineers
- Drove adoption across 100+ stores by iterating on customer feedback and demonstrating value to stakeholders, leading to 3 new client contracts for Customer Capture V2

Tulip Retail

Kitchener, ON, Canada

SOFTWARE DEVELOPER INTERN

May 2023 - August 2023

- Eliminated form maintenance overhead by developing a modular customer form system called Customer Capture V2 using PHP, TypeScript, and React, allowing full customization of widgets and layouts
- Cut build times by 50% on frontend services by leading the migration from Webpack to Vite, identifying key bottlenecks and optimizing the build pipeline to enhance developer efficiency
- Reduced developer context switching by creating a Mattermost editor plugin in Lua, allowing engineers to quickly format and preview messages within their code editor

NCR Corporation

Waterloo, ON, Canada

SOFTWARE DEVELOPER INTERN

September 2022 - December 2022

- Enabled real-time data exchange for Teller Cash Recycling (TCR) machines by developing Java/Spring API endpoints integrating with Kafka, ensuring seamless communication between banking systems and cash-handling hardware
- Accelerated feature implementation by designing high-level sequence diagrams, breaking down complex workflows into clear, actionable development steps
- Reduced manual testing reliance by implementing an automated Cucumber test suite, writing behavior-driven tests to improve test coverage and catch regressions early

Distributive (Formerly Kings Distributed Systems)

Kingston, ON, Canada

SOFTWARE DEVELOPER INTERN

May 2022 - August 2022

- Achieved 85% test coverage by designing and implementing component tests for Compute, Wallet, and Protocol APIs in a distributed computing platform
- Enhanced cloud computing efficiency by contributing to core Node.js libraries for DCP (Distributed Compute Protocol)
- Developed a Ray tracing engine in JavaScript alongside a colleague for a company-wide hackathon, leveraging DCP's distributed processing power to accelerate image generation by approximately 50%, showcasing the potential of the platform

Skills

Languages TypeScript, JavaScript, Python, Rust, C, SQL, Bash, PHP, Java, HTML/CSS

Technologies Node.js, React, Express, Hono, Docker, Kubernetes, AWS, OAuth, PostgreSQL, MySQL, MongoDB, Terraform

Projects

Homelab | K3s, Flux, kube-vip, Longhorn, Traefik, cert-manager, SOPS, Renovate

[View](#)

- Built a self-hosted Kubernetes cluster running on Raspberry Pi 5 machines using the K3s distribution, Flux for GitOps, and Renovate bot for auto PR's to Github
- Utilized kube-vip for load balancing, Traefik for reverse proxying and ingress handling, Longhorn for persistent storage across nodes, cert-manager for provisioning SSL certificates, and SOPS for secrets management

Watch Together | Rust, TypeScript, React, Tanstack, Tailwind, AWS S3, PostgreSQL, Docker

[View](#)

- Developed a real-time video streaming platform using WebSockets, enabling synchronized playback across multiple users
- Implemented secure OAuth authentication, video library management, and rate limiting with a Token Bucket Algorithm

MarkdownEdit | Rust, TypeScript, React, Zustand, Tailwind, PostgreSQL, Docker

[View](#)

- Designed a markdown editor enabling users to securely log in via OAuth and manage their collection of markdown documents
- Implemented features including live preview, creation, editing, deletion, and seamless exporting to HTML format for portability

Buddy | TypeScript, Node.js, AWS Lambda, API Gateway, DynamoDB, Bedrock, Terraform

[View](#)

- Created an AI terminal assistant using AWS Bedrock (Llama3.3-70B) to provide guidance on Linux commands and programming queries
- Designed a serverless architecture with AWS Lambda, API Gateway, and DynamoDB, enabling secure, scalable interactions alongside API key authentication, rate limiting, and IaC via Terraform

Education

University of Guelph

Guelph, ON, Canada

BACHELOR'S OF COMPUTING, HONOURS COMPUTER SCIENCE (CO-OP), GPA: 4.0

September 2020 - April 2025