

# DANE WANKE

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## Education

University of Manitoba	Graduated Bachelor of Computer Science (2024)
R.D Parker Collegiate	Grade 12 bilingual diploma
Royal Conservatory of Music	Grade 10

## Skills

Competencies: Resilience, Emotional Intelligence, Communication, Organization, Thoroughness, Critical Thinking, Intellectual Leadership, Adaptability

Languages: JavaScript, TypeScript, PHP, HTML, CSS, SQL, Java, Python, C++, C, Go

Technologies: Git, Vue, React, SASS, Apache, Node, Express, Postgres, Cassandra, Prisma, Docker, Kubernetes, Linux, OpenCV, Scikit, ImbLearn, Jupyter, GeoPandas, Hugo, Photoshop, Blender, OnShape, Cura

## Professional experience

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### Canadian Grain Commission – Student Developer

2023

- Received a **standing ovation** for exceeding project expectations. Our four-month deliverable included:
  - Curation and SQL database development for ‘big data’ (28 years of scientific research data)
  - Implementation of a Linux-based Docker Swarm environment
  - Development of ETL scripts for multi-threaded data collection, processing and updates
  - Creation of ML model builder notebooks to facilitate predictions and feature importance analysis
  - Extensive documentation that both explains and explores data, algorithms and decisions
- Led weekly standups for sprint planning, peer review and team building in addition to biweekly progress meetings with government stakeholders using prepared documents sent in advance to support discussions and decision making that **set new standards for future teams**
- Implemented CI/CD pipelines using GitHub Actions to automate testing, type checking, and linting processes, contributing to improved code quality and development efficiency which helped my **personal contributions reach close to 80 000 lines**

### Westwood Dental – IT and Receivables

2018 – 2020

- Consistently recognized as **top performer** in managing receivables
- Enhanced company exposure through successful collaborations with third-party vendors and the development of effective SEO strategies
- Setup and improved upon existing office hardware and operational procedures
- Assumed front desk responsibilities during peak hours, ensuring smooth and pleasant interactions **without any patient complaints**

## Projects

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**Digi Menu** – Experimental digital menu with comparing capabilities

**Now used in all my bartending, field tests indicate a unique and positive user experience**

| Task centered design |

**EaTEN** – Calorie counting Android application

**Collaborative project with short iterations and testing that nearly triples production code**

| Junit5 | Mockito | Espresso |

**Door Unlocker** – An Arduino mechanism that opens doors

**First solo project remastered using lessons from school**

| OAuth | Arduino | Raw HTTPS | SQL triggers | Session management |

**Grocery Bot** – Automated price comparison web service

**Large scale project that deals with the travelling salesman problem**

| APIs | Scrappy | UX design | Dynamic programming |

**Project Y** – Wearable display shirt that lights up according to audio frequency

**Focuses on best practices, swift development and testing cycles**

| CMake | Catch2 | Agile and test-driven development |

**M.O.B** – Authentication using MapReduce and the Eigenface algorithm

| Google Cloud | Flask | System design |

**Handler** – Enables gesture recognition allowing users to control computers with their hands

**Empathy** – Detects emotion using facial recognition, low-level sensors and machine learning