

Nivid Patel

✉ nrpatel@uwaterloo.ca | 🌐 nrpatel18.github.io | 🐙 github.com/nrpatel18 | 🌐 linkedin.com/in/nivid-patel

TECHNICAL SKILLS

Languages: Python, C/C++, SQL, JavaScript, HTML5/CSS3, Racket

Frameworks: Tailwind CSS, React, Node.js, Flask, REST API

Developer Tools: Git, Linux, Bash, Docker, GCP, AWS, Azure, Postman, Drupal

Libraries: Pandas, NumPy, Matplotlib, Seaborn

EXPERIENCE

Software Developer Co-op

Jan 2024 – Apr 2024

Canadian Institute for Health Information

Ottawa, ON

- Refactored components of employee website using Tailwind CSS and React aggregating **1000+ data points**.
- Streamlined stakeholder CMS website using Drupal for templating, using **CI/CD** accelerating development by 27%.
- Programmed and tested live HTML to PDF API using **Python** and **Postman** providing up-to-date PDF reports.
- Implemented **Docker** containers for website deployed on **AWS EC2**, enhancing scalability and saving 4 mins deploy time.

Microsoft Azure and AI Research Assistant

May 2023 – Aug 2023

Microsoft - University of Waterloo

Waterloo, ON

- Collaborated with a team to prototype an AI Research Assistant using **Azure ML** to aid in medical disease research.
- Ingested disease data into **ML Studio** for text classification training and employed **Read API** to get JSON output.
- Received a distinguished **academic award** for facilitating a 45-minute final presentation to 120+ clients and faculty staff.

Hacker - McHacks 🐙

Jan 2023

McGill University

Montreal, QC

- Developed Redwish, a full-stack health app to democratize blood donation and transfusion accessibility.
- Integrated the front-end with HTML, CSS, Bootstrap, and **jQuery**, and back-end with **Firebase**.
- Utilized **DialogFlow API** to craft a conversational chatbot for customers with poor experience, increasing user satisfaction.

PROJECTS

UW Chat 🐙 | React, Tailwind CSS, Firebase

- Developed a **full-stack chat application** for 40,000+ university students enabling all-way real-time communication.
- Implemented secure Firebase Google Authentication (**OAuth**) with modular imports for seamless user integration.
- Enhanced chat app's frontend using React and Tailwind CSS, and backend using Firebase.

Chess - CS246 Final Project | C++, XQuartz

- Built a **C++ chess engine** following agile **SDLC** using Big 5 for piece management, and UML for class management.
- Utilized **STL** and the Observer pattern to enhance game features, state tracking, and checkmate conditions.
- Innovated versatile three-way and four-way chess variants, along with human vs computer version improving game ratings.
- Developed **test-suites** & GUI in a Linux Environment using **CMake** and **XWindows** to facilitate development.

REStube 🐙 | Flask, SQL

- Created a scalable RESTful API using Python, Flask, and SQLAlchemy for efficient youtube channel data management.
- Implemented CRUD operations, enhancing data efficiency and **API performance by 14%** by caching user queries.
- Enhanced user experience with user-friendly **HTTP** response codes for smooth API interactions.

Insightify 🐙 | Pandas, Seaborn, Jupyter

- Built a web scraper to automate account comparisons and provide insights of **51 million channels**.
- Established an isolated virtual environment with Anaconda, installing critical packages and dependencies.
- Visualized YouTube data using **Pandas** and **Seaborn**, yielding 11+ insights for channel growth.

EDUCATION

University of Waterloo

Waterloo, ON

Bachelors of Computer Science, Honours Co-op

Sep 2022 – Present

- **Relevant Coursework:** Object-Oriented Programming, Data Structures and Algorithms, Computer Organization and Architecture, Compilers, Tools and Techniques for Software Development.
- **Scholarship:** President's Scholarship of Distinction (\$2000), Faculty of Mathematics Global Scholarship (\$15,000)
- **Certifications:** Microsoft Azure Fundamentals (AZ 900), Azure AI Fundamentals (AI 900)