

Aryan Patel

 AryanPatel |  aryan-patel |  a68patel@uwaterloo.ca |  647-550-8295

TECHNICAL SKILLS

Languages: C++20, C#, C, HTML5, CSS3, JavaScript(ES6), Python3, SQL, Bash, R

Technologies and Frameworks: React, Redux, Node, Express, .NET Core, .NET MAUI, Vue.js, MySQL, MS SQL, MongoDB, Flask, REST APIs, Docker, Material-UI, TailwindCSS, Bootstrap, Git, GCP, Firebase, Dialogflow, Excel, Tableau, Figma

EXPERIENCE

Full Stack Software Developer

Sept 2024 – Dec 2024

BTNX

Toronto, ON

- Revamping functionality and UI of RapidReader App for **150k+** iOS/Android users with **.NET MAUI** framework.
- Working on redesigning a large-scale management website (20+ databases) using **TypeScript, React, C#, and SQL**.
- Developed Python scripts to automate testing of PyTorch-based deep learning models achieving 97% strip reader accuracy.

Software Engineer In Test

Jan 2024 – Apr 2024

University of Waterloo (IST)

Waterloo, ON

- Developed code and executed comprehensive automated test cases using **Codeception** in **Drupal (PHP)** environment.
- Led API automation testing adoption, boosting test coverage by **25%** and pinpointing critical backend issues.
- Enhanced CI/CD pipeline integration with **Jenkins**, increasing build and deployment efficiency by **40%**.

Full Stack Software Engineer

Sept 2022 - Dec 2022

INTECH

Orlando, FL

- Worked closely with senior UI developers and leveraged **ReactJS(React Router, Styled Components, and Axios)** to implement robust front-end functionality for their e-commerce platform.
- Deployed website on **AWS EC2** using **Docker** containers, improving scalability & reducing deployment time by 4 mins.
- Implemented and tested a live HTML to PDF API endpoint using **Python** and **Postman**, providing up-to-date PDF reports for users.

Founder at ByteBuddies (CS Club)

Dec 2021 - Sept 2023

Pinnacle Public School

Ahmedabad, India

- Led a team of 10 developers to build a **MERN** stack web app that aids Supportive Housing of Ahmedabad, an NPO dedicated to helping homeless individuals, manage resident records and activities more efficiently.
- Mentored club members in algorithmic problem-solving (Python, C++) & full stack web development. Prepared teams for programming competitions, and achieved commendable rankings in TCS CodeVita & Codeforces contests.

PROJECTS

DeliverLink | *ReactJS, Redux, NodeJS, ExpressJS, MongoDB, Material-UI, Socket.io*

- Utilized **MERN** stack to develop a full-stack web app that addresses critical gaps in existing courier system by bridging operational inefficiencies, offering a more efficient and reliable solution for courier management.
- Implemented 2 **RESTful APIs** to facilitate seamless communication between application components, optimizing data flow and enhancing system functionality.

Eaters-Eye | *Vue.js, TailwindCSS, Python(Flask), Google Cloud Vision API*

- Developed a full-stack AI web-app, utilizing **Vue.js, Tailwind CSS, and Python**, enabling users to capture or upload food images for instant retrieval of nutritional information.
- Implemented a robust backend system with **Flask**, integrated **Google Cloud Vision API** for image analysis, and CalorieNinja API for accurate nutritional data, and then successfully deployed the app using Vercel.

Chess - CS246 Final Project | *C++, XQuartz*

- Engineered a **C++ chess engine** adhering to SDLC, and created UML diagrams for robust class architecture, efficient piece management, and dynamic game features employing various design patterns.
- Developed test suites, utilizing **CMake** for build automation and **XWindows** for GUI rendering.

EDUCATION

University of Waterloo

Sept 2022 - May 2026

– Bachelor of Computer Science Co-op (with Specialization in Human-Computer Interaction)

– **Relevant Coursework:** Object-Oriented Software Development, Data Structures and Algorithms, Compilers, Logic and Computation, Functional Programming, Tools and Techniques for Software Development

– **Certifications and Awards:**

- Canadian Senior Mathematics Contest 2021: International Rank- 18 (Top 1%-Student Honour Roll); 3rd in India
- Received \$25,000 Faculty of Math Entrance Scholarship and \$2000 President's Scholarship of Distinction