

# Jaimin Patel

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## TECHNICAL SKILLS

**Languages:** Python, JavaScript, HTML/CSS, SQL (Postgres), PHP, Java, C/C++

**Libraries/Frameworks:** Pandas, NumPy, Matplotlib, Scikit-Learn, React, NodeJS, jQuery, Eigen

**Developer Tools:** Git, Docker, Microsoft Azure, Visual Studio, VS Code, PyCharm, VMWare, Linux

## EDUCATION

### University of Toronto

Sep. 2020 – May 2025

*Honours Bachelor of Science - Information Security Specialist, Minor in Math*

- **Courses:** Machine Learning, Web Programming, Software Design, Data Structures and Algorithms Analysis, Software Tools and Systems Programming, Information Security, Fundamentals of Robotics, Medical Robotics
- **Certificates:** BigQuery for Machine Learning (Google), Introduction to LLM (Google)

## EXPERIENCE

### Front End Developer Intern

May 2023 – Sep. 2023

*WebMobi Technologies Inc.*

*Toronto, ON*

- Designed a dynamic web application using React and CSS to align with customer needs and the design team's specifications resulting in a 40% increase in user experience.
- Executed security and performance tests and collaborated with a quality assurance team while adhering to SDLC practices to debug and optimize overall performance by 10%.

### Programming Instructor

June 2021 – Present

*Ultimate Coders*

*Toronto, ON*

- Instructed Python, Web Development, and Scratch to students in grades 1 to 10 with 1000+ hours spent.
- Adjusted the syllabus by introducing real-life applicable projects to increase student engagement to 90%.
- Led students to complete syllabus, providing personal attention to solidify understanding of fundamentals.

### Digital Marketing Intern

July 2019 – Aug. 2019

*BrandEQ Group*

*Toronto, ON*

- Managed a team of 3 and used HTML, CSS, and JavaScript, to develop a responsive web application form.
- Researched and designed 15+ social media content for clients using Canva, Pixlr, and Buffer.

## PROJECTS

### Autonomous Medical Robotics | C++, Eigen, Python, 3D Slicer, OpenIGTLink

Jan. 2024 – Aug. 2024

- Developed an algorithm to calculate the trajectory of insertion using Eigen with an average error of 7mm.
- Performed automated needle insertion using Franka Emika Panda Robot arm with 90% accuracy.
- Communicated Robot Poses and ultrasound images to 3D Slicer via OpenIGTLink with a reduced delay of 0.7sec.

### ML Model - City Classifier | Python, Matplotlib, NumPy, Pandas, Scikit-Learn, GitHub

Apr. 2024

- Analyzed and documented 4 Machine Learning models to pick the best model to deploy for the hidden test data. Decided to go ahead with the neural network model and achieved 84% on the test set.
- Trained Random Forest Classifier using scikit-learn and optimized hyperparameters using Grid Search to obtain 92% accuracy on the validation set.
- Performed data exploration and cleaning using NumPy to remove anomalies such as outliers in numerical values and non-ASCII characters from the text input feature.

### Cybersecurity Chrome Extension | React, JavaScript, Python, Firebase, Tailwind CSS, GitHub

Feb. 2024

- Developed catPhish Chrome extension using React, Python, and JavaScript to detect and report phishing scams, integrating APIs like OpenAI and Google Safe Browsing for enhanced security.
- Collaborated in a team of 4 to integrate multiple functionalities, demonstrating adaptability and resilience in navigating challenges.

### Web Development Portfolio | TypeScript, React, PHP, Express, NodeJS, REST API

Sep. 2023 – Apr. 2024

- Engineered a stopwatch using TypeScript and React featuring start, stop, laps, and reset functionalities.
- Programmed cross-browser rock-paper-scissors game using PHP sessions to store and retrieve game states.
- Recreated Wordle (full stack): implemented REST API using NodeJS, Express, and JSON, database management using PostgreSQL, and front end using React to make the game multiplayer online.