Raj Pandya

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PROFESSIONAL EXPERIENCE

DeGroote Finance & Investment Council (DFIC) **Hamilton, ON**
Quantitative Analyst *October 2023 – Present*
- Collaborated with a team of 10 individuals in developing quantitative trading algorithms using **Python**
- Developed visual representations of stock market data while conducting numerical analysis using Yfinance, NumPy, Matplotlib, Pandas, and QuantConnect to determine optimal financial and investment opportunities

McMaster Rocketry **Hamilton, ON**
Controls Engineer *September 2023 – Present*
- Engineered, and prototyped a mini rocket from scratch for testing purposes resulting in a successful 100+ meter launch

Glen Oaks Co-op **Oakville, ON**
Office Administrative Assistant *May 2023 – July 2023*
- Managed and processed **40+** accounts payables/receivables using Yardi Genesis 2 for rent, AC, and parking payments
- Answered **15+** calls per day on a multi-line phone system resolving queries and relaying messages
- Designed **20+** posters and memos promoting events and news in the community using Adobe Photoshop and Microsoft Word
- Maintained and updated records in Microsoft Excel to organize financial and personal information

Aghabi Non-Profit Housing Inc. **Mississauga, ON**
Office Administrative Intern *July 2022 – Aug 2022*
- Documented a comprehensive timeline for a legal case spanning **20+** years using Microsoft Excel
- Organized and recorded work inventory reducing space usage by up to **25%** and evaluating the need for company insurance

Brampton Centennial Coding Club **Brampton, ON**
Coding Competition Organizer *May 2022 – June 2022*
- Led a team of 4 individuals in organizing a successful coding competition with **25+** participants
- Established 3/10 questions and marketing materials, including the event poster and logo using Adobe Photoshop and Illustrator

PERSONAL PROJECTS

Anisync | *Python, Flask, SQLite, Beautiful Soup, HTML, CSS, JavaScript, Gunicorn, Nginx, Google Analytics* *August 2023*
- Manufactured a full stack web application for the popular game osu! in which the client can input their MyAnimeList (MAL) username receiving up to 300 high quality levels through a HTML, CSS, and JavaScript frontend
- Implemented web scraping with Beautiful Soup, MAL, and osu! API's to get relevant information with **94.7%** accuracy
- Developed a Python-Flask back-end connected to a SQLite3 database increasing speed by up to **600x**
- Deployed application on a Digital Ocean droplet resulting in **850+** users within 2 days due to Search Engine Optimization (SEO)

Rubik's Cube Solver | *Python, OpenCV, NumPy, Matplotlib, Pillow, ColorMath, EasyGUI* *July 2023*
- Built a functional Rubik's Cube solver capable of taking pictures, analyzing, and solving the cube from arbitrary starting states using OpenCV and linear algebra while providing a solution with a maximum move length of 20 turns
- Integrated calibration to increase accurate color detection by up to **800%** using ColorMath and Euclidean distance
- Simulated a 3D interactive simulation of the starting cube using Matplotlib and NumPy while displaying the solution

Number Guesser | *Python, NumPy, TensorFlow, OpenCV, Pygame, TKinter* *December 2022*
- Designed a machine learning algorithm capable of analyzing and determining the digit of a hand drawn number with a **99.8%** accuracy using the MNIST database for training purposes, Pygame for input, and OpenCV for image manipulations

TECHNICAL SKILLS

- **Programming:** Python, Rust, C, HTML, CSS, JavaScript, SQL, Java, XML, LATEX, MATLAB
- **Libraries/Frameworks:** NumPy, OpenCV, TensorFlow, Matplotlib, Pandas, Beautiful Soup, Flask, Jinja, Pygame
- **Developer Tools:** Git, Digital Ocean, Nginx, Google Analytics, Docker, Android Studios, Figma, Adobe Suite, Microsoft Suite

EDUCATION

McMaster University **Hamilton, ON**
Bachelor of Computer Engineering | CGPA of 3.9/4.0 *Expected Graduation 2026*
- **Awards:** Deans' Honour List (2022-2023), $3000 Engineering Award of Excellence (2022-2023)
- **Relevant Coursework:** Introductory Microeconomics (A), AI Innovation (A+), Design Projects in Engineering (A), Calculus 1 (A+), Calculus 2 (A), Linear Algebra (A), Differential Equations (A), Dynamics (A+), Electricity & Magnetism (A-)