

# Ehab Haque

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## Technical Skills

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- **Languages:** Python, MATLAB, C/C++, Linux, Bash, Git, Java, JavaScript, SQL, MongoDB, HTML5, CSS3, Dart, R, UI Design
- **Libraries:** PyTorch, TensorFlow, Keras, React, SKLearn, NumPy, Pandas, JAX, XLA
- **Tools:** Docker, Kubernetes, ArgoCD, Tekton, Jenkins CI/CD, Google Cloud, SLURM, Git

## Education

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**BEng Electrical Engineering** | *York University* | *September 2018 – April 2024*

- Graduated with honours.

## Experience

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**Tech Rehab – IT & Software Specialist** | *May 2020 – Present*

- Optimizing software deployment and user experience by 25% on Windows, macOS, iOS, and Android operating systems.
- Streamlining client VoIP systems by automating voicemail handling, holiday announcements, contact directory updates, call logs, and voicemail transcription delivery to email.
- Skilled in managing cloud-based and networked systems (DNS, TCP/IP, domain services, backup solutions), supporting scalable and reliable environments essential for software deployment and data-driven applications.
- Diagnosing and resolving network performance issues across distributed systems, ensuring high availability and optimal data throughput for cloud services and software applications.

**York University (Lassonde) - IT Technical Support Specialist** | *October 2022 – April 2024*

- Executed software deployments across 100+ high-capacity lab machines, utilizing scripting and advanced management tools to ensure seamless integration and reduce software deployment time by 50%.
- Improved software deployment workflows by identifying bottlenecks and recommending automation strategies, leading to increased operational efficiency.
- Configured academic software environments for engineering and computer science labs, ensuring compatibility with specialized development tools (MATLAB, AutoCAD, Python IDEs, etc.).
- Developed documentation for software deployment processes and troubleshooting steps, improving knowledge transfer and team productivity.

**YURS Rover Design Team - Systems Engineer** | *Sept 2022- April 2023*

- Collaborated in designing and prototyping two custom PCBs in KiCAD, integrating a microcontroller to enable I2C/UART to CAN communication between the GPS, compass modules, and the central control module, laying the groundwork for sensor fusion and autonomous system development for future team members.
- Collaborated on embedded C code development for the microcontroller, facilitating I2C and UART data transmission from external modules.
- Engaged proactively in team discussions, brainstorming sessions, and collaborative problem-solving activities.
- Participated in two 4-day rover competitions, diagnosing issues and improving rover functionality to meet specific requirements.

## Projects

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**Biomedical Signal Analysis Project – QRS Complex Detection with Convolutional Neural Networks**

- Built a machine learning model in Python using PyTorch to detect QRS complexes in ECG signals, applying a Convolutional Neural Network (CNN) for time-series analysis.
- Preprocessed ECG data from lab experiments and the MIT-BIH Arrhythmia Database for training and evaluation, managing dataset preparation and validation. Spearheaded UI/UX design by creating and presenting detailed wireframes and mockups to stakeholders using Figma before developing the application in Flutter.
- Integrated the OpenAI API to accelerate development, assist in troubleshooting, and refine the CNN model architecture.
- Trained and tested the CNN model on lab-acquired ECG data, documenting the development process and identifying challenges for future improvements.

**Capstone – YFS Wellness App: iOS & Android Development**

- Led the development of a custom app for the YFS Wellness Centre at York University, increasing student engagement by 25% by implementing features such as a Google Calendar for upcoming events, a Database for updating resources, a Pomodoro timer, and interactive games.
- Spearheaded UI/UX design by creating and presenting detailed wireframes and mockups to stakeholders using Figma before developing the application in Flutter.
- Managed end-to-end design and deployment on iOS and Android, ensuring broad accessibility and smooth functionality.
- Collaborated with team members to drive discussions and deliver presentations, ensuring a timely, high-quality delivery.

**Tech Rehab – Founder & Full-Stack Developer**

- Designed and developed techrehab.ca using HTML5, CSS3, and JavaScript, creating a fully responsive, mobile-optimized business website. Integrated third-party APIs (as needed) to enhance site functionality and automate client communication processes.
- Deployed the website using Hostinger's cPanel platform, managing domain setup, SSL certification, and performance.
- Implemented SEO best practices and integrated Google Analytics to monitor site traffic, leading to a 30% increase in engagement.