

SARTHAK SETHI

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EDUCATION

University of Waterloo

Honours Bachelor of Computer Science

Waterloo, ON

Sep 2024 – May 2029

TECHNICAL SKILLS

Languages & Web: Python, C/C++, R, JavaScript, SQL, HTML/CSS

APIs/Frameworks: React, Node.js, Flask, Github API, REST API, OpenAI API

Technologies: AWS (EC2, S3), Docker, Jest, MySQL, PostgreSQL, Git, Figma, Canva, Power BI, Cursor, Pear AI

WORK EXPERIENCE

Front-End Developer

Aug 2023 – Jul 2024

Prompt Solutions India

India

- Built a **HIPAA-compliant healthcare platform** integrating **hospital locations**, **emergency services**, and **online consultations** for thousands of users.
- Developed the **front end** with **React (web)**, leveraging **Redux** using **JavaScript** for **state management**.
- Managed and developed a **microservices backend** using **Python (Flask)** hosted on **AWS EC2** for scalable healthcare services.
- Worked in a **cross-functional team** of **5 developers**, ensuring **on-time delivery** and **stakeholder satisfaction**.
- Launched with **5000+ user sign-ups**, improving **emergency response efficiency** by **32%**.

Software Engineer Co-op

Jun 2023 – Jul 2023

Nokia India

India

- Modernized an **outdated bug tracking system** to **reduce duplicate efforts** and improve resolution times.
- Revamped using **Node.js** and **Express**, optimizing **PostgreSQL queries** to **boost performance** by **47%**.
- Created **custom React dashboards** with **D3.js** for **real-time analytics** and **deployed** via **Docker**.
- Integrated **unit testing** with **Jest**, achieving **63% code coverage** and reducing **bug recurrence**.

Digital Marketing Analyst

Oct 2022 – Dec 2022

Creative Stree India

India

- Ran **A/B tests** on landing pages and ad creatives; evaluated performance using **CTR** and **bounce rate** metrics.
- Built static **campaign pages** using **HTML**, **CSS**, and **JavaScript**; maintained **brand styling** consistency.
- Implemented **on-page SEO** (title tags, meta descriptions, heading structure) using **keyword research**.
- Used **Google Analytics** to track **traffic sources**, **user behavior**, and **session durations**.
- Managed **content delivery** via **Meta Business Suite** and **Canva**; scheduled **promotional assets** for **Instagram** and **Facebook**.
- Generated **monthly analytics reports** with traffic summaries and visualized **KPIs** using **Google Sheets** and **Charts**.

PROJECTS

🔗 Personal Portfolio Website | React.js, HTML, CSS, JavaScript 🔗

Waterloo, ON, Canada

- Built a **responsive portfolio website** with **React.js**, **HTML**, **CSS**, and **JavaScript** to showcase projects.
- Designed a **dynamic user interface** with **component-based architecture** for **cross-device compatibility**.
- Integrated **SEO optimization**, increasing **website visibility** and reducing **load times**.
- Implemented **interactive project showcases** to highlight **technical expertise** and **personal branding**.

🔗 GIM - Guard in Motion | Python, ML 🔗

India

- Designed a **extbfwearable safety device** for women integrating **extbfGPS**, **motion sensors**, **mic**, and **camera** to ensure real-time protection.
- Built a **extbfone-touch activation system** for live **audio-video streaming** to the cloud and emergency alerts to trusted contacts.
- Integrated **extbfmotion** and **gyro sensors** for **auto-triggered recording** on sudden impact or abnormal movement.
- Engineered the backend with **extbfsecure cloud storage**, **audio/video encoding**, and **real-time location tracking**.
- Collaborated on mobile app integration to manage contacts, view alerts, and enhance user control.

🔗 CarRaksha - Safe Driving System | C++, Arduino 🔗

India

- Developed a **vehicle safety system** in **C++** on **Arduino** for **collision prevention**.
- Integrated **MQ-3 alcohol** and **ultrasonic sensors**, enabling **automatic stops**, reducing **accidents** by **15%**.
- Programmed a **speed sensor** to cap **vehicle velocity**, enhancing **safety metrics**.
- Tested in **real-world conditions** with **10+ vehicles**, achieving **79% reliability** in **safety interventions**.

🔗 iMoney - Banknote Identifier | Python 🔗

India

- Validated a **banknote identifier** with **user-centric design**, ensuring **customer alignment**.
- Developed **detection algorithms** in **Python**, achieving **84% accuracy**.
- Optimized **image processing workflows** using **AWS S3** to enhance **detection speed** and **scalability**.