

SARTHAK SETHI

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EDUCATION

University of Waterloo

Bachelor of Computer Science

- Courses: **Data Structures & Algorithms, Operating Systems, Optimization, Functional Programming**

Awards

President's Scholarship of Distinction

Waterloo, ON, Canada

Sep 2024 – Present

EXPERIENCE

Prompt Solutions India

Aug 2023 – Jul 2024

Front-End Lead

- Built a comprehensive, **HIPAA-compliant** healthcare platform integrating hospital locations, emergency services, and online consultations for thousands of users.
- Architected a microservices **backend** on **AWS (EC2, RDS, S3)** using **Python (Flask)** and implemented **CI/CD** pipelines with **Jenkins**.
- Developed the **front end** with **React** (web) and **Kotlin** (Android), leveraging **Redux** for state management and **Firebase** for real-time notifications.
- Launched the platform with **10,000+ user sign-ups** in the first month, improving emergency response efficiency by **30%**.

Nokia India

June 2023 – July 2023

Software Engineer Co-op

- Modernized an outdated **bug tracking system** to reduce duplicate efforts and **improve resolution times**.
- Revamped the system using **Node.js** and **Express**, optimizing **PostgreSQL** queries to boost performance by **40%**.
- Created custom **React** dashboards with **D3.js** for real-time analytics and deployed the solution via **Docker** and **Kubernetes**.
- Implemented **automated triaging**, **enhanced search**, and real-time analytics, **reducing duplicate tickets** by **40%** and improving resolution times by **25%**.

Creative Stree India

Oct 2022 – Dec 2022

Digital Marketing Analyst

- Leveraged **A/B testing** to boost brand visibility and user engagement through creative digital solutions.
- Designed and developed interactive web assets using **HTML/CSS** and **JavaScript**, collaborating with marketing and design teams to ensure brand alignment.
- Optimized website performance through responsive **design principles** and **cross-browser compatibility**.
- Leveraged **SEO and analytics tools** to optimize digital campaigns, boosting online traffic and earning stakeholder accolades.

SKILLS

Languages: Kotlin, Python, C/C++, HTML/CSS, JavaScript, SQL (MySQL, PostgreSQL)

Data Engineering: Foundational knowledge of ETL tools (Azure Data Factory, Databricks), data transformation/integration, Microsoft Fabric stack (Azure Data Lake, Data Factory, Azure Synapse)

Frameworks/Tools: React, Node.js, Flask, Docker, Kubernetes, AWS (EC2, RDS, S3, Lambda), Firebase, Jenkins, Microsoft Office tools, Power BI, Figma, Canva

Concepts: Microservices, RESTful APIs, Cloud Deployment, Agile, SDLC, TDD, CI/CD

PROJECTS

CarRaksha – Safe Driving System — C++, Arduino

Mar 2023 – Aug 2023

- Developed a real-time vehicle safety system in **C++** on **Arduino** promoting safer driving through automated interventions.
- Integrated an **MQ-3 alcohol sensor** and **ultrasonic sensors** for **collision prevention**, enabling **automatic stops** under risky conditions.
- Programmed a **speed sensor** to monitor and cap vehicle velocity, **reducing accident rates** by **15%**.
- Implemented a camera module with **image processing** for **drowsiness detection**, **increasing driver alertness** by **20%**.
- Engineered a sensor interface module to decouple hardware and processing, enabling plug-and-play sensor integration.

iMoney – Product Strategist & Marketing Coordinator — Python, OpenCV

Oct 2022 – Jan 2023

- Spearheaded **user-centric validation** for a **banknote identifier**, ensuring **design alignment** with customer needs.
- Developed **detection algorithms** in **Python** and **OpenCV** achieving over **95%** accuracy.
- Engineered an **ETL pipeline** using **Python** and **SQL** to integrate and transform transactional data, enabling **real-time analytics**.
- Executed a targeted **go-to-market strategy**, driving a **25%** increase in early adoption.
- Streamlined product design with **cross-functional collaboration** and iterative testing based on customer insights.
- **Reduced transaction time** by **30%** through data-driven refinement of quality benchmarks.
- Aligned the **product roadmap** with market demands, demonstrating **strong communication** and **adaptability**.