

Saurav Kumar

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EDUCATION

Queen's University

Bachelor of Applied Science, Engineering

Kingston, ON

Sept. 2024 - present

Jawahar Navodaya Vidyalaya

Class-12, CBSE

Koderma, India

June 2022- April 2023

EXPERIENCE

Web Development Intern

Bellurbis Technologies

Jun 2025 – Present

On-site /Gurgaon, India

- Building a full-stack website for NGO (PBKMS) using the MERN stack (MongoDB, Express, React, Node).
- Improved API performance by integrating Redis caching, **reducing latency** from 1–2 seconds to under 30ms.
- Designed a responsive frontend and implemented **RESTful APIs** for efficient data handling and less server load.

Automotive Software and Electronics Member

Queen's Racing Formula SAE Team

Jan 2025 – Present

Ontario, Canada

- Working on the car's dashboard software, ensuring proper signals to components like the odometer, braking, and battery systems.
- Writing C++ code for embedded systems and learning bit shifting concepts.
- Learning advanced embedded systems concepts while collaborating with senior team members to enhance technical knowledge and problem-solving skills.

Social Impact Intern

Paschim Banga Khet Majoor Samiti

May 2024 – July 2024

On-site/ West Bengal, India

- Led comprehensive socio-economic and health assessments of **120+** families across four villages in Sukinda, Odisha, impacted by chromite mining activities.
- Led socio-economic and health assessments of 120+ families across four villages in Sukinda, Odisha—impacted by chromite mining—and submitted detailed reports to Ekta Niketan health center to expand their focus beyond tuberculosis to broader community health challenges.

PROJECTS

911 Dispatcher Multitasking Test | APSC 103, Queen's University

Jan 2025 - Apr 2025

- Engineered a real-time automated testing prototype for **Toronto Police** to assess 911 dispatcher multitasking using Python and Arduino, integrating 4 cognitive modules with synchronized test flow, dynamic UIs, and serial communication.
- Built an Arduino-based embedded system with 10+ components (buttons, mic, LEDs) for real-time interaction, and integrated facial emotion recognition via OpenCV and deep learning to automate behavioral tracking and analytics.

User Authentication Dashboard | MongoDB, React, Express, Node, REST API

Oct 2024- Dec 2024

- Designed and developed a full-stack user authentication system using the MERN stack and REST API with signup/login features, dynamic user dashboard, and responsive UI.
- Utilized MongoDB for secure storage, React for frontend, and Express/Node for real-time API interactions and backend logic.

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript, MySQL, HTML/CSS, Tailwind Css

Frameworks/Libraries: React, Node.js, Express, REST API

Databases: MongoDB, Redis

Developer Tools: Git, GitHub, VS Code, Arduino IDE

AWARDS

Queen's Karta Scholarship | (\$250,000+ Awarded)

- Full scholarship awarded through the Queen's-Karta partnership for my undergraduate studies, based on academic merit, leadership qualities, service orientation, and financial need.