

HARJAP SINGH

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PROFESSIONAL SUMMARY

Detail-oriented technologist with a Software Development Diploma and hands-on experience in system integration, automation, and data acquisition environments. Skilled in programming, system commissioning, and troubleshooting automated monitoring systems. Proficient in documentation, data quality control, and working in field-based technical roles requiring physical endurance and precision.

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, HTML, CSS

Frontend: React, JavaScript, Express, Redux, Responsive Design, HTML, CSS

Backend: Python, Django, Django REST Framework, RESTful APIs, SQL Server, MySQL, PostgreSQL

Mobile: React Native, Expo

Tools: GitHub, Docker, Git, Linux, Selenium, Postman, CI/CD, Microsoft Office Suite

Practices: System Commissioning, Data Acquisition Systems, Automation, Quality Control (QC), Technical Documentation, Troubleshooting, Field Installation, Instrumentation Support

SOFT SKILLS

Communication, Leadership, Problem-solving, Attention to Detail, Adaptability, Team Collaboration

EDUCATION

Software Development Diploma

Southern Alberta Institute of Technology (SAIT) • GPA: 3.99 / 4.0

Front-End Development, Full-Stack Engineering, and UI/UX Design

WORK EXPERIENCE

Volunteer Full Stack Developer

Jan 2024 – Aug 2024

Destination History, Calgary

- Commissioned and maintained integrated data systems using RESTful APIs and PostgreSQL, ensuring accurate data acquisition and system reliability in field-like simulation environments.
- Programmed and configured backend services in Python to simulate automated data collection workflows, aligning with real-world telemetry and monitoring use cases.
- Documented system configurations and maintained detailed technical records for data integrity and troubleshooting, consistent with industry quality control standards.
- Collaborated with cross-functional teams in Agile settings to deploy and maintain software used for real-time monitoring and data visualization.

Freelance Full Stack Developer

May 2023 – Aug 2023

Hawk Eye Car Detailing, Calgary

- Designed and deployed a full-stack application that automated data entry and service tracking, emphasizing data quality control and system reliability.
- Built and maintained RESTful APIs using Django REST Framework to support real-time data exchange between frontend and backend, simulating telemetry-enabled system behavior.
- Implemented robust database schemas in PostgreSQL to store and validate structured monitoring-like data, ensuring system scalability and data accuracy.
- Authored comprehensive technical documentation for system setup, configuration, and troubleshooting to support end-user deployment and field maintenance.

Software Developer Intern

May 2022 – July 2022

CodSoft

- Developed and tested software components supporting automated data workflows, with an emphasis on system reliability and error handling.
- Participated in full software development lifecycle including system commissioning simulation, quality assurance, and deployment in Linux-based environments.
- Performed Quality Control (QC) on test data outputs, validating accuracy and consistency before integration into production systems.
- Documented installation procedures and system behaviors to support field deployment scenarios and technical support teams.

PROJECTS

Note-Taking Web App [GitHub](#) [Website](#)

Tech Stack: *Python, Django, React, PostgreSQL, RESTful APIs*

- Built a full-stack application simulating automated data capture and storage, with Django backend handling structured data and React frontend enabling real-time user interaction.
- Implemented RESTful API integrations and PostgreSQL data validation to ensure data quality and system reliability—mirroring principles used in automated monitoring systems.

Car Rental Web App [Website](#)

Tech Stack: *React, JavaScript, Redux, RESTful APIs, Responsive Design*

- Integrated third-party RESTful APIs to simulate real-time telemetry data feeds, building a responsive UI that displays dynamic field data similar to remote monitoring dashboards.
- Used Redux for state management to maintain data consistency across user sessions—critical for accurate data interpretation in monitoring scenarios.

Sustainable (Architecture & Design Project) [Figma](#)

Tech Stack: *Figma, Full-stack Development, System Architecture*

- Collaborated on system architecture planning for an integrated monitoring solution, mapping user interactions to backend data flows and emphasizing documentation for field deployment.