

SOMNATH RANA

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OBJECTIVE

Passionate final-year MCA student with a strong foundation in software development and hands-on experience in C, C++, Python, JavaScript, and Java. Seeking the Software Engineering Winter Internship at Google to apply my technical skills in real-world projects, collaborate with top engineers, and contribute to innovative solutions.

EDUCATION

LOVELY PROFESSIONAL UNIVERSITY

Master of Computer Applications (MCA)
CGPA: 7.1

Phagwara ,PB
July2023 - July 2025

BRAINWARE UNIVERSITY

BACHELOR OF COMPUTER APPLICATION (BCA)
CGPA: 8.64

Barasat ,WB
Aug2020 -Jun 2023

RASAN NEHERU VIDYAPITH(H.S)

Engineering & Technology Vocational (12th)
Percentage: 87.00%

Egra, WB
July2018 – July-2020

EXPERIENCE

ReBid- (Internship)

Remote
Jan-2021-Sep-2022

Java Development Intern

- Developed scalable back-end services using **Java** and **Spring Boot**, reducing server response time by 20%.
Built and integrated **RESTful APIs** to enhance communication between front-end and back-end systems.
- Applied **OOP** principles to create modular, maintainable code.

PROJECTS

INVENTORY MANAGEMENT SYSTEM

Languages/Tools: Python, MySQL

- Developed an efficient inventory management system to track stock levels, orders, and deliveries.
- implemented CRUD operations, automated alerts for low-stock levels, and enhanced search capabilities.

E-COMMERCE WEBSITE

Languages/Tools: JavaScript, Node.js, React, MongoDB

- Designed and developed a dynamic e-commerce platform with a seamless user experience.
- Implemented secure login, product filtering, shopping cart, and payment integration.

Real-Time IoT Monitoring System with Mobile Alerts

- Developed an IoT-based real-time health monitoring system using PyCharm.
- Integrated body temperature, heart rate, and blood pressure measurement devices.
- Implemented data acquisition, visualization, and mobile alert notifications.
- Utilized Python for backend development, ensuring real-time device synchronization and alert functionality.

Skills: IoT, Python, Real-Time Monitoring, Mobile Alerts, Device Integration

TECHNICAL SKILLS

- | | |
|---|---------------------------------------|
| • Java ,C++, JavaScript, Python, R | • SQL MongoDB, Oracle, SQLite |
| • HTML, Node.js, React, CSS | • Data visualization , Data Analytics |
| • Spring Boot, Hibernate, Bootstrap, jQuery, REST APIs, OOP DSA | • Google Cloud, AWS (Basics) |

CERTIFICATES

- Java SE 8 Programmer- **Oracle Certified Associate (OCA)**- *ongoing*
- Java Full Stack Developer Specialization – **Coursera**
- Google Data Analytics – **Google**
- Java Programming – Fundamentals – **Great Learning**
- Google Data Analytics Professional Certificate – **Google**
- **Google IT Support Professional Certificate – Coursera**
- **Data Structures and Algorithms – Hacker Rank** (Certified in C++, Python)

EXTRACURRICULAR ACTIVITIES

- Member of the *Brainware University Coding Club*, actively organizing hackathons and coding challenges.
- Volunteered as a teaching assistant in community coding workshops for underprivileged students.
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ADDITIONAL INFORMATION

- **Languages:** English, Hindi , Bengali , Odia

DECLARATION

I hereby declare that the information provided above is true to the best of my knowledge and belief.
