# BALKIRAT SINGH

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Linkedin | Github | Portfolio

## EDUCATION

**Thapar Institute of Engineering And Technology**                                              **2022 - 2026**

Bachelor of Engineering – Electronics And Communication Engineering; CGPA:- 6.72

**Moti Ram Arya School**                                                                                              **2022**

Non Medical; Higher Secondary Education; Percentage :- 87.4%

**St. Xavier's High School**                                                                                          **2020**

Secondary Education; Percentage :- 75.4%

## EXPERIENCE

**Full Stack Developer Intern Xebia**

June 2025 - July 2025   Gurugram, Haryana, India

- Developed a full-stack Event Management Platform enabling end-to-end event lifecycle handling.
- Implemented real-time features using Socket.IO for live updates and user communication.
- Built secure authentication with JWT & OAuth; integrated SendGrid for automated email alerts.
- Selected among the top 6 candidates to contribute to Xebia's Optimism Index site.

## PROJECTS

**Doctor appointment system – MediConnect |** Github **|**

- Developed a full-stack healthcare platform with role-based authentication, serving 1,000 users.
- Responsive React.js frontend with advanced filtering, reducing appointment booking time by 30%.
- Built a scalable RESTful backend with Express.js and MongoDB, optimizing queries with indexing and aggregation pipelines to handle 10,000 patient records.

**Event management platform – EventCraft |** Github **|**

- Built a comprehensive event management platform handling end-to-end event lifecycle management.
- Implemented real-time features using Socket.IO for live event updates and participant communication.
- Developed a secure authentication system with JWT and OAuth integration for multiple login providers.
- Integrated automated email notifications via SendGrid for event reminders and updates.

**Innovative alcohol detection system for vehicles**

- Engineered an IoT-based safety system preventing drunk driving through automated breath analysis.
- Programmed an Arduino microcontroller with an MQ-3 alcohol sensor for real-time detection.
- Integrated GPS/GSM modules for emergency location tracking and alert notifications.

## SKILLS

**Languages:** C/C++, JavaScript, HTML/CSS, SQL

**Developer Tools:** VS Code, MongoDB Compass, Vercel/Netlify, Jira, Power BI

**Technologies/Frameworks:** Git/GitHub, React.js, Next.js, Node.js, Express.js, Tailwind CSS

**Soft Skills:** Team Management, Leadership, Adaptable, Active Listener

## CERTIFICATION

Oracle Cloud Infrastructure AI Foundations Associate | link

Microsoft - Develop AI solutions in Azure | link

Verizon Communications Inc.- Cloud Platform | link

Skyscanner - Front-End Software Engineering Job Simulation | link

upGrad x Microsoft - Generative AI Foundations | link