

# ADITYA TANWAR

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## PROFESSIONAL SUMMARY

Computer Science student specializing in security and cloud technologies. Proficient in OAuth, SSO, and secure full-stack development (Python, Java, JavaScript). Certified in Cybersecurity (IBM) and Cloud Computing (IIT Kharagpur) with hands-on experience building authentication systems and secure applications.

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## PROJECTS

### Project Name: ForexWatch

**ForexWatch** is an automated monitoring tool that tracks currency pair rates (like EUR/USD) and instantly alerts traders via SMS/Telegram when rates hit user-defined thresholds. Eliminates manual price checking for FX traders and hedge funds.

#### Technologies:

- **Backend:** Python (Flask), Requests library
  - **APIs:** Alpha Vantage (Forex data), Twilio API (SMS) / Telegram Bot
  - **Alert Channels:** SMS, Email, or Telegram notifications
  - **Deployment:** AWS Lambda
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### Project Name: SmartSpend

**SmartSpend** automates expense tracking by categorizing bank transactions using customizable rules (e.g., "Amazon → Shopping", "Uber → Transportation"). Designed for SMEs and accounting teams to replace manual CSV sorting.

#### Technologies:

- **Backend:** Python (Pandas for data processing)
  - **UI:** Streamlit (simple web interface)
  - **Data Input:** CSV/Excel (bank statement format)
  - **Visualization:** Matplotlib/Plotly (spending charts)
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## TECHNICAL SKILLS

Programming: Python, Java, C++, JavaScript, TypeScript, HTML/CSS

Frameworks: React, Node.js, Django, Flask, Express

Security: OAuth, JWT, Encryption, Cybersecurity Principles

Cloud: Google Cloud, AWS (EC2, S3), IBM Cloud

Tools: Git, VS Code, Postman, Docker

Databases: MySQL, MongoDB

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## EDUCATION

Vellore Institute of Technology, Bhopal

Bachelor of Technology in Computer Science | 2022-Present

• CGPA: 7.72/10

• Relevant Coursework: Cloud Security, Machine Learning, Database Systems

Certifications:

• IBM Cybersecurity Analyst | 2024

• GEN AI Using IBM Watsonx | 2024

• Cloud Computing (NPTEL IIT Kharagpur) | 2023

• Machine Learning & Deep Learning (NPTEL IIT Guwahati) | 2024

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