

# AKHAND PRATAP SINGH

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Kanpur Nagar, Uttar Pradesh - 208016, India

## OBJECTIVE

I am a second-year engineering student looking for an internship at Microsoft as a Software Engineer to learn new skills and gain real-world experience in software development.

## EDUCATION

### ● Dr. APJ Abdul Kalam Technical University

Bachelor of Technology

◦ SGPA: 8.28 / 10.00

October 2023 – July 2027

Lucknow, India

### ● RG Intermediate College

12th Standard

◦ Grade: 91.4%

March 2023

Kanpur Nagar, India

## PROJECTS

### Crash Detection and Emergency Response System

June 2025 – Present

- A system that detects vehicle crashes and automatically sends emergency alerts with GPS coordinates.
- Tools: Arduino Uno, SIM800L GSM Module, NEO-6M GPS, MPU6050 Sensor, C/C++.
- Used MPU6050 to sense abrupt acceleration and angular velocity changes.
- Integrated SIM800L GSM and NEO-6M GPS to send SMS with crash location.
- Designed modular logic to analyze motion and filter false positives.

### Interpreter Using Python

December 2024 – February 2025

- Built a basic interpreter in Python to evaluate arithmetic and logical expressions.
- Implemented tokenization and parsing using regular expressions and recursion.
- Designed modular architecture to support future extensions like conditionals and loops.
- Created a simple CLI for real-time user interaction.

## SKILLS

**Programming Languages:** C++, Python, JavaScript, C

**Database Systems:** MongoDB (Beginner)

## CERTIFICATIONS

- **Deloitte:** Data Analytics
- **ANZ:** Cyber Security Management

July 2025

June 2025

## ADDITIONAL INFORMATION

**Languages:** Hindi (Native), English (Proficient), German (Basics)

**Interests:** Problem Solving, Playing Cricket