

Akash Kumar

Computer Science Student - Specialization in Internet of Things

Bangalore, Karnataka 560064, India

+91-8618470011 | akashkumarx27@gmail.com | linkedin.com/in/akash-kumar | github.com/skykumar27 |

hackerrank.com/akashkumarx72

PROFESSIONAL SUMMARY

Objective-driven Computer Science Engineering student specializing in Internet of Things (IoT), with hands-on expertise in full-stack development, embedded systems, and machine learning. Proficient in Java, Python, and JavaScript, with a strong focus on designing and deploying innovative IoT solutions and scalable software applications. Skilled in Arduino programming, sensor integration, and data-driven system optimization. A collaborative creative thinker with a proven track record in delivering impactful projects, eager to drive technological advancements in software engineering and IoT-driven environments.

EDUCATION

Presidency University

Bachelor of Technology - Computer Science Engineering (IoT Specialization)

- CGPA: 7.9/10.0

Bangalore, Karnataka

Aug 2022 – May 2026

St. Claret PU College

Higher Secondary Education (12th Standard)

- Percentage: 86.33%

Bangalore, Karnataka

Jun 2021 – May 2022

Air Force School

Secondary Education (10th Standard)

- Percentage: 90.17%

Jalahalli, Karnataka

Jun 2019 – May 2020

TECHNICAL SKILLS

Programming Languages: Java, Python, HTML, CSS, JavaScript (Basic), PHP, MERN (Basics)

Databases: MySQL, MongoDB

Tools & Technologies: Eclipse IDE, Android Studio, Arduino IDE

Specializations: Internet of Things

Development Areas: Web Development, Mobile Development

PROJECTS AND EXPERIENCES

Speech-App – AI-Powered Speech Analysis | Next.js, React.js, Hugging Face, Shadcn UI, Google Cloud Speech-to-Text API 2025 – Present

- Developing a speech application with real-time transcription, processing 100+ transcriptions per minute, and ML-based stammering detection achieving 90% accuracy.
- Generates 500+ personalized recommendations for speech improvement by integrating 5+ advanced ML models from Hugging Face.
- Designed a responsive modern UI tested across 10+ devices, reducing load times by 30% for a seamless user experience.

Expense Tracker Web Application | HTML, CSS, JavaScript, PHP, MySQL

2025

- Deployed a full-stack web application to track and manage personal expenses with a responsive user interface.
- Implemented user authentication and data persistence using PHP for backend logic and a MySQL database.
- Utilized JavaScript to create flexible charts and reports, providing a visual overview of spending habits.

Mandi Price Tracking Mobile Application | Android Studio, Java, MySQL, Mobile Development

2024

- Built an Android app integrating real-time price data from 50+ agricultural markets, supporting 1,000+ daily user queries.
- Applied data visualization for trend analysis, enabling 200+ farmers to increase profits by 15% through informed decisions.
- Optimized MySQL queries, reducing data retrieval time by 40% and enabling offline access for 80% of app features.

Arduino Flight Controller System | Arduino, C++, Sensor Integration, Real-time Processing

2023

- Engineered a UAV flight controller processing data from 6 sensors at 100 Hz, ensuring stable autonomous flight for 95% of test cases.
- Implemented algorithms for motor control and altitude management, reducing error rates by 20% and achieving 95% operational reliability.
- Integrated 3+ hardware components (gyroscopes, accelerometers), improving flight stability by 25% in dynamic conditions.

CERTIFICATIONS

- Bronze Badge in Java (HackerRank)
- Real Life 5 Machine Learning and Data Science Projects (Udemy)
- Java (Basic) (HackerRank)
- JavaScript (Basic) (HackerRank)
- Python (Basic) (HackerRank)
- CSS (Basic) (HackerRank)
- Introduction to Career Skills in Software Development (LinkedIn Learning)

EXTRACURRICULAR ACTIVITIES

National Cadet Corps (NCC)

Jun 2018 – May 2022

- A & B Certificates
- Combined Annual Training Camp, Doddaballapur, 2018
- Leadership development and teamwork training programs