

# Anuvahas S K

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## SUMMARY

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Computer Science and Business Systems undergraduate with experience in full-stack web development and Android application development. Skilled in Python, Java, Data Structures & Algorithms, Machine Learning (ML), Database Management Systems, Software Design, Debugging, and building reliable and scalable software systems.

## EDUCATION

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### Jansons Institute of Technology

Sep 2023 – Jun 2027

Bachelor of Technology in Computer Science and Business Systems, Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Computer Networks, Software Engineering

## EXPERIENCE

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### Web Developer Intern

Aug 2024 – Nov 2024

ELGI Equipments Limited

- Worked in Agile teams using Scrum methodology, sprint planning, and user story implementation.
- Contributed to digital twinning-related web applications and software solutions. Collaborated with cross-functional teams to deliver iterative software improvements.

### Web Developer Intern

Jul 2025 – Oct 2025

HE5 Solutions

- Developed authentication workflows and backend modules using Python.
- Assisted in Single Sign-On (SSO) integration and token-based authentication systems.
- Identified and resolved authentication vulnerabilities to improve application security.

## PROJECTS

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### Multi-Tenant Task Management System | React.js, Node.js, PostgreSQL, Docker

- Developed a multi-tenant task management system with secure tenant isolation, JWT authentication, and Role-Based Access Control (RBAC). Designed REST APIs and PostgreSQL database schemas to support task creation, tracking, and management across organizations.
- Improved deployment reliability and development efficiency by containerizing the application and database using Docker and Docker Compose.

### Android Battery Usage Monitoring System | Java, Android Studio, Android SDK

- Developed an Android application that identifies battery-draining applications and monitors background-running processes using Android system APIs.
- Leveraged Android system APIs and UsageStatsManager to analyze battery consumption and application activity. Enhanced device resource visibility by providing real-time battery usage statistics, background process monitoring, and an intuitive user interface for performance analysis.

### Crime Hotspot Dashboard | Python, Next.js, Machine Learning

- Developed a full-stack crime analytics dashboard that predicts potential crime hotspots using machine learning models trained on historical crime data.
- Processed and analyzed crime datasets using Python, Pandas, and Scikit-learn to identify patterns and generate location-based risk predictions.
- Integrated predictive analytics with interactive visualizations, enabling users to explore crime trends and hotspot regions through a web-based dashboard.

## TECHNICAL SKILLS

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**Programming Languages:** Python, Java

**Web Technologies:** HTML5, CSS3, React.js, Node.js, REST APIs

**Databases & Cloud:** MySQL, Firebase, PostgreSQL

**Core Computer Science:** Data Structures & Algorithms, Object-Oriented Programming (OOP), Database Management Systems (DBMS), Machine Learning (ML), Computer Networks, Software Design

## LEADERSHIP & ACTIVITIES

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**Project Director** | IEEE Student Branch - Led student project initiatives and coordinated technical activities and project execution.

**Member** | Institution's Innovation Council (IIC) - Participated in innovation and entrepreneurship initiatives and technical programs.

**Hackathon Achievement** | Shortlisted for the Thoothukudi Police Hackathon for developing a technology solution focused on crime data analysis and hotspot prediction.