

AKASH A



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[LinkedIn](#)



[GitHub](#)



[Portfolio](#)

EDUCATION

Bachelor of Engineering in Computer Science

Government College of Engineering, Tirunelveli

Aug 2020 - May 2024

CGPA: 7.9

PERSONAL PROJECTS

Ecommerce Website | MongoDB, Express.js, React.js, Node.js

March 2023

- Implemented secure authentication using **JWT** and **bcrypt**, integrated Razorpay API for payment processing with **HMAC SHA256** encryption.
- Developed a dynamic user management system using **MongoDB** and Mongoose with real-time updates.
- Built the frontend with **React.js** and optimized API communication with **Axios**.
- Utilized **Node.js** and **Express.js** for backend development, ensuring a smooth user experience and seamless interactions.
- Achieved robust error handling and optimized performance with **REST APIs**.

Human Detection | Python, OpenCV, SSD MobileNetV2, TensorFlow Lite Raspberry Pi

May 2024

- Collected and curated a dataset of 100+ images of humans in flood-affected environments for training a Convolutional Neural Network (CNN) using **SSD MobileNet V2** on Google Colab.
- Trained the model, achieving 75% prediction accuracy for human detection in flood conditions, ensuring effectiveness in challenging environments.
- Deployed the trained model on Raspberry Pi with TensorFlow Lite, integrating it into a drone system for real-time human detection in flood areas.

Online Examination | Java, JDBC, HTML, Servlet

July 2022

- Developed a secure online quiz system with **Java**, **Servlet**, and **JDBC**, enabling user authentication and efficient data management using **MySQL**.
- Designed an intuitive HTML-based user interface for a seamless quiz-taking experience, ensuring smooth functionality and ease of use.

EXPERIENCE

Fragua Technologies India Pvt Ltd

FullStack Developer

Aug 2024 - Nov 2024

Chennai, Tamilnadu

- Developed ERP and **Billing software** using **.NET Framework 4.5.7**, **AngularJS**, HTML, CSS, and Bootstrap.
- Contributed to both front-end and back-end development as part of a full-stack team.
- Worked with MS SQL Server for database management, integration, and utilized **WebAPI** for efficient communication.

TechJose, Startup

Backend Developer

Dec 2024 - Current

Remote

- Developed and maintained **RESTful APIs** using **Node.js** and **Express.js**, ensuring seamless communication between frontend and backend systems.
- Integrated **MongoDB** for efficient database management, optimizing data storage and retrieval processes to improve application performance.
- Conducted rigorous API testing using **Postman** to validate endpoints, ensuring functionality, reliability, and compliance with business requirements.

TECHNICAL SKILLS

Languages: C and Java

Web Development : HTML, CSS, Bootstrap, Tailwind, React.js, Express.js

Web Dev Tools: Nodejs, VScode, Git, Github, Postman

Databases: MongoDB, Relational Database(mysql)

Relevant Coursework: Data Structures & Algorithms, Object Oriented Programming, Database Management System

Familiar With: AWS, DevOps, Python, DotNet, Springboot, Angular, Typescript, Linux

CODING PRACTICE PLATFORMS

Solved over **200+** problems on LeetCode, Hackerrank, and GeeksforGeeks.

Hackerrank 

LeetCode 

GeeksforGeeks 

CERTIFICATES

Machine Learning 

Cloud Essential 

Web Development 