



# AMAL BABU

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## FULL STACK DEVELOPER



### Objective

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Full-stack developer with a Master's in Computer Applications, seeking an entry-level position or internship to leverage my diverse skill set in software development. Eager to apply my self-taught expertise in machine learning and deep learning to contribute to innovative projects. Committed to continuous learning and professional growth while collaborating within a dynamic team environment.

### Skills

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- Python, Django, Django REST Framework, Flask, FastAPI
- SQL (MySQL, PostgreSQL), MongoDB
- JavaScript, React.js, Redux.js, Tailwind CSS
- Git, GitHub, Docker
- Microsoft Azure Fundamentals, GCP Fundamentals
- Machine Learning, Deep Learning, NLP
- Python (Pandas, NumPy, Matplotlib, TensorFlow, sklearn)
- Prompt Engineering

### Work Experience

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**FULL STACK DEVELOPER (INTERNSHIP)– Easecase AI – Remote** November 2023 - February 2024

- Developed full stack web application enabling lawyers to leverage AI for document analysis using the Flask framework for scalable APIs and backend processing.
- Technologies used: Flask, React, MongoDB, NLP (GPT4 API)

**CYBERSECURITY INTERNSHIP – Samagra Technologies – Mangalore, KA** December 2023 - January 2024

- Completed a 6-week cybersecurity internship with Samagra Technologies, focusing on network security, risk assessments, and incident response.
- Enhanced ability to develop secure applications through hands-on experience with firewalls, VPNs, and other cybersecurity tools.

### Education

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**MASTER OF COMPUTER APPLICATIONS – Srinivas Institute of Technology (VTU) – Mangalore** September 2024

Post Graduation, 8.7 CGPA

**BACHELOR OF COMPUTER APPLICATIONS– ST Philomena College – Mangalore** September 2022

Graduation, 8.34 CGPA

### Projects

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**SKIMLIT: NLP MODEL FOR MEDICAL ABSTRACT CLASSIFICATION – MCA Project** August 2024

- NLP model using TensorFlow to classify sentences in medical abstracts into objectives, methods, and conclusions
- Technologies & Libraries used: TensorFlow, Sci-Kit Learn, Matplotlib, Pandas
- FastAPI, React.js, Tailwind CSS, Git & GitHub, Docker

**FOOD DONATION SYSTEM–Personal Project** March 2023

- Leftover food donation web application.
- Backend - Django, DRF, PostgreSQL [GitHub Link](#)
- Frontend React.js, Redux.js, Tailwind CSS [GitHub Link](#)

**ONSHOP E-COMMERCE WEB APPLICATION– BCA Project – [LIVE LINK](#)** September 2022

- An online shopping app for hypermarket store.
- Backend - Django, DRF, PostgreSQL [GitHub Link](#)

- Frontend React.js, Redux.js, Tailwind CSS [GitHub Link](#)
- AWS EC2 deployment using Docker and Docker-compose, Lets Encrypt HTTPS with Certbot

## HOBBY PROJECTS – Personal Project

November 2023- Present

- CGPA Calculator for MCA, an SEO-optimized web app. [LIVE LINK](#)
- Share-Post, a simple photo-sharing web application. [LIVE LINK](#)

## Courses & Certifications

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### Microsoft Certified Azure Fundamental (Az-900)

August 2024

- Certified in foundational knowledge of cloud services and Microsoft Azure, covering core concepts in cloud computing, Azure services, architecture, and governance.

### Machine Learning Specialization (Deeplearning.ai, Coursera)

May 2024

- Completed a comprehensive course on supervised and unsupervised learning, covering regression, classification, neural networks, and reinforcement learning with a perfect score.

### Google Cloud Computing Foundation (IIT Kharagpur, NPTEL)

October 2023

- Certified in Google Cloud Platform (GCP) Foundations – Completed with 81%, earning a Top 5% badge, demonstrating proficiency in GCP fundamentals, including core cloud services, architecture, and security concepts, through IIT Kharagpur and NPTEL

### Mathematics For Machine Learning Specialization (Imperial College London, Coursera)

February 2023

- Completed coursework in Linear Algebra, Multivariate Calculus, and Principal Component Analysis (PCA) with Imperial College London, covering essential mathematical concepts for machine learning.

### Programming In Python (Meta)

October 2022

- Completed a comprehensive course by Meta, focusing on Python programming fundamentals, including data structures, control flow, functions, and libraries for effective coding and problem-solving.

### Android Developer Certificate (Udemy)

December 2020

- Completed a course on building 23 apps with Android Oreo, taught by Rob Percival and Nick Walter on Udemy.

## Professional Skills

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- Excellent communication skills in English
- Excellent team player
- Agile way of working