

# K N ANANTHA NANDANAN

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## EDUCATION

### Amrita Viswa Vidyapeetham

Bachelor of Technology in Computer Science and Engineering CGPA: 8.62/10

Kollam, India

August 2019 - August 2023

## TECHNICAL SKILLS

**Languages:** Python, TypeScript, PostgreSQL, HTML/CSS

**Frameworks:** Django, Express, React, Node.js, Next.js

**Tools:** Git, Linux, Docker, Redis, GraphQL, Postman, GitHub Actions

## EXPERIENCE

### Technical Lead

December 2022 - June 2023

IMS

Remote

- **Led a team** to develop and implement an innovative Inventory Management System (IMS) for a hospital's IT department, resulting in **increased efficiency and productivity**. Features included role-based login, **department-based ticket assignment**, and data visualization through a report dashboard, among others.
- Coordinated with the client to **successfully deliver** the IMS project, which effectively tracked hospital infrastructure inventory. The system included search filters, ticket closing, and user profile pages, resulting in **streamlined** inventory management and improved operations.
- Set up CI/CD pipeline and **DevOps environment** using Docker and Docker Compose for development and deployment, ensuring efficient delivery of the IMS project.
- **Technical Skill:** Python, Django, Docker Compose, CI/CD, Redis, GraphQL, Huey, Postgres

### MLOps Engineer

July 2022 - Present

EUS-ML

Remote

- Assisted in the development of an **AI-assisted tool** for **improved diagnosis** of potentially malignant pancreatic tumors during endoscopic ultrasound-guided fine-needle aspiration, leading to enhanced patient outcomes and **diagnostic accuracy**.
- Conducted research on novel deep learning approaches to improve tool accuracy and precision, contributing to the development of the final product.
- Designed and implemented MLOps tools and infrastructure to support the deep learning project, resulting in **streamlined** development and deployment processes.
- **Technical Skill:** Python, BASH, Docker, CI/CD, Machine Learning

### Research Student

October 2021 - March 2022

Eindhoven University of Technology

Remote

- Developed an algorithm using **Attribute Similarity Graph** to handle incomplete information during **ABAC Policy Evaluation**, improving the **accuracy** and **reliability** of user access requests in modern systems.
- Conducted an in-depth analysis of the algorithm's effectiveness in decision-making for user access requests, providing insights into its **practical applications** and potential limitations.
- **Technical Skill:** Python, Unit testing

### Associate Technology Engineer

June 2021 - August 2021

Spoon

Remote

- Developed a back-end infrastructure using a server-less framework called **Firebase Cloud Functions** with GCP.
- Implemented back-end features such as authenticating users, **KYC verification** and integrated **bill payment system**.
- Improved API response time by **20%** by implementing **Asynchronous invocations** and fine-tuning **resource allocation**.
- Improved software security by integrating a **data privacy vault system** using Skyflow service.
- **Technical Skill:** GCP, Typescript, Firebase Functions, CI/CD, NodeJS

### Backend Developer

December 2020 - May 2021

Traboda

Remote

- Implemented back-end features for a cyber security platform using query language called GraphQL and debugged numerous back-end components in the codebase.
- Added a **user password security** measure by implementing a **password pwned checker**.
- **Technical Skill:** Python, Django, GraphQL

**Student Social Responsibility | Coordinator**

January 2022 – March 2022

- Organised multiple events and invited a nutritionist to speak about creating healthy eating habits and the risks of avoiding the proper nourishment to grow a healthy body and mind.

**amFOSS | Member and Mentor**

August 2019 – Present

- Mentored college juniors in various technical projects and in contributing to open source.

**Google Developer Student Club | Member**

August 2020 - July 2021

- Contributed with other leads in organising various sessions based on Android Development and web development.
- Was part of a project with other core team members to help students to learn basics of software development.

**inCTF | Core Organiser**

May 2020 - June 2023

- Organized and executed the highly respected inCTF hacking competition, which attracts participants from India and around the world.
- Managed logistics, including venue, sponsor and vendor coordination, travel and accommodations, and oversaw the competition to ensure a smooth operation.
- Led and managed a team of volunteers to provide a positive experience for all participants and ensure the success of the event.