

# K.N Anantha nandanan

## EDUCATION

2019-2023 **B.Tech in Computer Science and Engineering**, Amrita Vishwa Vidyapeetham, Kollam, Kerala, India.  
Ongoing CGPA: 8.44/10

## EXPERIENCE

- July 2022 - **EUS-ML**, *MLOps Engineer*.  
Present
- Developing an AI-assisted tool with a team of 6 to help physicians identify potentially malignant pancreatic tumours during endoscopic ultrasound-guided fine-needle aspiration.
  - Researching and implementing MLOps tool, infrastructure for the Deep Learning project.
- October 2021 **Eindhoven University of Technology**, *Research Student*.  
- March 2022
- Implemented an algorithm for handling incomplete information during ABAC Policy Evaluation using Attribute Similarity Graph.
  - Analysed the effectiveness of the algorithm for deciding verdict for user access request in modern systems.
- June 2021 - **Spoon**, *Associate Technology Engineer*.  
September 2021
- 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, integrated Buy Now Pay Later(BNPL) and bill payment system.
  - Improved API response time by **20%** implementing Asynchronous invocations and fine-tuning resource allocation.
  - Improved software security by integrating a data privacy vault system using Skyflow service.
- December 2020 - **Traboda**, *Backend Developer*.  
April 2021
- Implemented back-end APIs 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.

## ACHIEVEMENTS

- Finished as a **runner up in the IEEE GovTechThon'20**, out of the 100+ teams selected for the hackathon.
- Invited to the Hackverse conference

## TECHNICAL PROJECTS

- April 2020 **NaWaB bot**, *Contributor*.  
The NaWaB bot is a content curator for network-related subjects. It's one of the finest ways to stay up to date on the latest innovations, advances, and network talks on Twitter. When the script runs, it scrapes all tweets linked to networks and saves the tweet ids and timestamps in a.csv file. The results.log and error.log files include all of the result and error logs, respectively. When a user provides the bot the /start command, it begins delivering the most recent tweets. **Tech stack** used - Python, Pandas, Twitter API, Telegram API. Project Link: <https://github.com/Team-SYNACKd/NaWaB>
- May 2021 - **CMS**, *Maintainer*.  
Present
- Club Management System (CMS) is a Django-based web-app that serves as a foundation for many amFOSS community apps such as the amfoss website, webapp, and mobile app. **Tech stack** used - Python, Django, GraphQL, Telegram API, Google API.  
Project Link: <https://gitlab.com/amfoss/amfoss/cms>
- January 2022 **Lazzy Space**, *Contributor*.  
- May 2022
- Lazzy Space is a web-based work management and collaboration solution for efficiently organising, planning, and storing resources. **Tech stack** used - React, ExpressJS, MongoDB  
Project Link : <https://github.com/Akshay3960/lazzy-space>

November **NAV-FT**, *Contributor*.

2020 This is an Android flutter application that contains some of the features that we can use to speed up the process of vehicle fitness testing. New vehicle registration, New vehicle registration using an image, check whether the inspection for a certain vehicle is pending or completed, Checks for the tire condition, etc. **Tech stack** used - Android SDK, Flutter, Dart, Google API, Firebase, Docker, Tensorflow, AWS sageMaker.

Project Link:

<https://github.com/Fireboltz/NAV-FT>

October 2020 **Craig Scraper**.

Craig Scraper is a clone of the Craigslist website built using Django. This web application provides a better user experience than the real Craigslist website. The user can input the search query and surf for commodities to purchase with ease. Tech stack - Django, BeautifulSoup, Python, Materialize CSS. Project Link:

<https://github.com/ananthanandanan/Craig-Scraper>

## VOLUNTEER

January 2022 **Student Social Responsibility**, *Team Lead, Amrita School of Engineering*.

- March 2022
  - Aim of this project was to create a deep impression on how important it is to maintain a proper diet and the impact it has on us.
  - We invited a nutritionist for a talk with regards to developing good food habits as well as the dangers of not taking the right steps towards the right nutrition to develop a healthy mind and body.

August 2020 - **Google Developer Student Club**, *Member, Amrita School of Engineering*.

- 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 and android.

August 2019 - **Member and Mentor**, *amFOSS*.

- Present
  - Mentoring my juniors to get them started with open source contributions and come up with innovative ideas.
  - Help manage the community of 80+ members along with organizing various events and leading the media campaigns.

August 2021 **Basics of Programming**, *Presenter*.

This workshop was held by the amFOSS and Team BiOs for the school students in the field of web development, AI, Game development etc. I was responsible to take sessions for Introduction to Linux and Linux commands.

December **Kharagpur Winter of Code**, *Mentor*.

- 2020
  - Kharagpur Winter of Code is a 5-week long online program for students who are new to open source software development.
  - Mentored on Lorax Flutter SDK project for revamping the UI/UX.

September **Road to ML workshop**, *Mentor*.

- 2022 -
  - The objective of this workshop was to provide hands-on experience for students to broaden their perspective on Machine Learning and Deep Learning.
- October 2022
  - Actively participated in session organisation, handled logistics, and took a session on CNN architectures.

## TECHNICAL SKILLS

OS Linux, Windows, Mac

Languages Python, Typescript, GraphQL, SQL, BASH

Framework Django, MERN, MongoDB

Tools Git, Postman, Docker, Vscod

## INTERESTS

Technical Research in Computer Network and Security, Automation, Data Analysis, Contributing to Open Source