Nikhil Menon

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EDUCATION

- **Indian Institute of Information Technology, Kottayam (IIITK)**   Kottayam, India
  Bachelor of Technology - Computer Science and Engineering; CGPA: 9.57   *November 2020 - May 2024*
  Courses: *Data Structures, Design and Analysis Of Algorithms, Compiler Design, Operating System, Computer Networks, DBMS, AI, Parallel and Distributed Computing, Software Engineering and Project Management*

SKILLS SUMMARY

- **Languages:**   C/C++, Python, JavaScript, HTML/CSS, Java
- **Frameworks:**   Nodejs, Reactjs, NextJS, Express, Pytorch, OpenMP, React Native, Flask, Django
- **Tools:**   Git, GitHub, SSH, PuTTY, MySQL
- **Platforms:**   Linux, Windows, GCP, Firebase, MongoDB, Cloud Databases, Expo
- **Soft Skills:**   Problem Solving, Leadership, Teamwork, Critical Thinking, Project Management, Communication

EXPERIENCE

- **UST Global - Trivandrum**   Remote
  Software Developer Intern   ***June 2022 - August 2022***
  - Researched on the **soft computing** required to develop a **retail price optimizer**
  - Developed a price optimization software for sales in retail using **Python**
  - Used a **prophet** time series model to predict the sales as a function of product's price and other features

PROJECTS

- **RadicalyzerBOT - Manthan'21** 🔗   **December 2021**
  NodeJS, Twitter API, PyTorch
  - Used the offical **Twitter API** which can efficiently search through tweets under **parameters** within **1ms**.
  - Integrated with a **Bert Classifier** and a **Detoxify** model that is pre-trained on a dataset of **20,000 tweets**
  - Analyze radical tweets via a **JSON** to identify extremist people on Twitter in **runtime within a second**
  - Declared the winner for **Manthan 2021 for National Cyber Security** conducted by **MIC and BPRD**
- **Valentina** 🔗   **January 2022**
  React Native, Firebase, GCP
  - In house socializing/dating App for our College with **80+ users** and around **70+ matches**.
  - In-app **Chat** feature based on the matching algorithm with an **AES encryption** on the messages
  - Inbuilt system that prevents accidental matches and strong security system for reporting creepy behaviour
- **SupremeCLIP - Project Contributor** 🔗   **August 2021**
  Python, Pytorch, Jupyter Notebook
  - Enables **image search, reverse image search** and **image captioning** with **three** clicks
  - Optimized extraction of tags of each image and the inference time for processing **25000 images** to just **28 sec.**
- **Autojoomer - Project Maintainer and Contributor** 🔗   **July 2021**
  JQuery, Vanilla JS, HTML/CSS, Firebase
  - A chromium-based browser extension that allows students to attend classes on time via an automatic logger.
  - Maintained this **Open Source** project with **4** others and got around **20** contributors
  - Has more than **100+ users** from **IIIT Kottayam** College
  - Project has **30+ forks** and **25+ stars**

ACHIEVEMENTS

- **Winner** of **Manthan 2021**, India's 1st hackathon on National Cyber Security by **BPR&D** and **AICTE**.
- Qualified for ACM **ICPC Asia Amritapuri Regionals** 2022 and secured Rank **101**
- **Smart India Hackathon (SIH) 2022** Double Grand Finalist, conducted by **MIC** and **AICTE**.
- Completed **30 days** of **Google Cloud** Challenge in **Cloud Engineering Track** and **Data Science & ML Track**
- Ranked **19450 (98.25 percentile)** in **JEE Mains** and Ranked **11950 (top 1 percentile)** in **JEE Advanced**
- **CodeChef**: 3 star (1647)   **Codeforces**: pupil (1214)

COMMUNITY AND LEADERSHIP

- Leader of the team that won the **Manthan 2021 Grand Finale**
- Organized the **CTF and Reverse Coding** for Dhruva'21, IIITK College Tech Fest with **100+** participants
- Mentor at **HackNC 2021**, conducted by the **University of North Carolina**
- **Software Developer** for IIITK Tech Club, **BetaLabs**