



# D NIKHIL REDDY

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## Education

Amrita School of Engineering — CGPA - 8.87

Oct. 2020 – Present

*Bachelor of Technology in Electrical and Computer Engineering*

*Amritapuri, Kerala*

## Experience

### Deciml

June 2023 – August 2023

*Software Engineer Intern*

*Pune, Maharashtra*

- Project -Deciml Admin Panel. Tech Stack - **TypeScript** , **Google Cloud Functions** , **Firestore** , **NodeJS** , **MaterialUI**.
- Created a **Transaction Detail portal** that provides comprehensive details about a client transaction **reducing manual data retrieval time by 75%** and enhanced client satisfaction through instant access to critical financial insights.
- Utilised **Firestore Analytics** to develop a feature that focuses on **generating Real Time Analytics**, including Daily App installs, KYC Success Rates, Daily Debit Amounts, and Current AUM.
- Upgraded the **User Portfolio Page** to support multiple fund types achieving a **30% reduction in API latency** and improving data rendering speed.

### Team bi0s

December 2020 – April 2022

*Exploit Developer*

*Amritapuri, Kerala*

- Contributed to team's success in achieving a **global ranking of 29th** and securing the **1st position in India in 2021**
- Actively participated as a **Exploit Developer** , addressing challenges in all **Capture The Flag (CTF)** competitions that the **20 member team** engaged in, both as an individual solver and a collaborative team member.
- Conducted several internal events such as **Challenge discussions**, PwnyRacing (Exploitees compete against each other), **Presentations** on research papers, **Discussions** on cutting edge research, Talks and Sessions with Hands On tasks, etc

### Traboda CyberLabs

September 2021 – January 2022

*Cyber Security Trainer*

*Amritapuri, Kerala*

- Designed **6+ novel CTF challenges** and Conducted live tutorials on **Binary Exploitation** with **3000+ students** and authored Technical Content Modules on binary exploitation which has **40k+ views**.
- Oversaw social media and community support drawing registrations from over **17,000 students** across India.

## Projects

### NightKing-CMS | *NodeJS* , *NextJS* , *Express* , *MongoDB* , *REST APIs* , *MVCs*

- Built a versatile CMS for Dynamic Content Creation, Post Categorization and Category
- Designed and integrated a **Role-Based Access Control (RBAC)** mechanism using **JWT** and **Express** ensuring granular control over user permissions for enhanced security.
- Introduced a Library Section for seamless media transfer with supervised **Edit/Delete** features.
- Utilised **MongoDB** and **Cloudinary Database** for scalable content storage.

### M1dn1ght-Campa1gn | *NextJS* , *Semantic UI* , *Web3* , *Solidity* , *Ethereum*

- Developed a decentralized crowdfunding application using Solidity for smart contracts on the Ethereum blockchain.
- Built a responsive user interface using Next.js and Semantic UI, allowing users to interact seamlessly with the blockchain-based crowdfunding campaigns.

### Malloc Labs | *C Programming* , *Heap Memory Exploitation*

- A **dynamic storage allocator** for C programs, i.e., implementation of the **malloc**, **free** and **realloc** routines with an **accuracy of 92%**.
- Implemented **malloc()** using segregated free lists, where free blocks are organized into multiple lists based on their size.
- Incorporated a **coalescing mechanism** that merges adjacent free blocks immediately after heap extension or a free operation, **reducing chunk fragmentation by 60%** .

## Technical Skills

**Languages:** Python, Java, C, HTML/CSS, JavaScript, SQL , Solidity

**Developer Tools:** Github, UNIX , GNU Debugger , Ghidra , IDA , WireShark , Ganache , Remix IDE , IntelliJ , VSC

**Technologies/Frameworks:** ReactJS, Next.js, Node.js , Express.js , GCP , Blockchain , MySQL , MongoDB , Firestore

**Data Structures & Algorithms:** LeetCode - 200+ , Java , Python3

## Leadership / Extracurricular

### BlackHat USA Conference 2021/22 — Student Scholar

*Attended the BlackHat USA Conference as a recipient of a student scholarship worth \$560 for two consecutive years.*

### Vidyut Multifest 2023— Head of Sponsorships

*Led a team of 75 members securing sponsorships worth 40 lacs for our college's biggest Cultural + Tech Fest.*