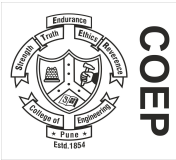**ANUP SURESH NAIR**

Course : **B.Tech**, Computers, 2022
Email : nairas18.comp@coep.ac.in
Mobile : 7264037528
CGPA : 9.65

**COEP**

---

### ACADEMIC DETAILS

| COURSE | INSTITUTE/COLLEGE | BOARD/UNIVERSITY | SCORE | YEAR |
|---|---|---|---|---|
| CLASS XII | Kamalnayan Bajaj Higher Secondary School | Maharashtra State Board | 93.85 % | 2018 |
| CLASS X | St Ann's High School | Maharashtra State Board | 95 % | 2016 |

---

### SUMMER INTERNSHIP / WORK EXPERIENCE

**Systems Engineering Intern, D.E. Shaw India Private Limited** — May 2021 - Jul 2021
- Worked on building a **network monitoring tool** to collect and store network data for state monitoring, visualizations and operational state changes.
- The project involved a backend written in Python and two frontend interfaces written in Python and JavaScript respectively. It also uses a **Time Series** and a **Graph Database** to store collected data.

---

| **Subjects / Electives** | Artificial Intelligence, Data Structures and Algorithms, Operating Systems, Database Management Systems, Computer Networks, Finance for Engineers, Software Engineering, Advanced Data Structures |
|---|---|
| **Technical Proficiency** | Python3, C++ Language, Databases, React.js, Algorithms, Networking, Git, JavaScript, Data Structures, C Programming |

---

### PROJECTS

**Tlib - Multi-Threading Library** — Mar 2021 - May 2021
- **Tlib** is a multi-threading library for Unix compliant OS that allows both **One-One** and **Many-One** threading models.
- The library also included synchronization primitives like **mutexes** and **spinlocks.**
- The project was written in C and included an extensive test suite and performance benchmarking to compare against single threaded programs.

**NetCon - Intranet Communication Tool** — Jan 2021 - May 2021
- NetCon is a fully decentralized peer to peer communication tool that works **without the Internet** and across devices in a **LAN**.
- It offers features like rich audio calls, text messaging and file transfer all without flowing a bit of data outside the network.
- This tool was developed both as a web application and a native mobile application using **React** and **React Native/**

**mHTTP Server - HTTP/1.1 Web Server** — Oct 2020 - Nov 2020
- mHTTP server is an **HTTP/1.1** compliant web server for managing common web HTTP web requests.
- Provides all utilities to handle methods and generate responses to return the requested objects.
- Implemented a custom tool for **testing** the performance and correctness of the server along with real-time stress testing.

**MILAAP - Video Conferencing Application** — May 2020 - Jan 2021
- Milaap is a **decentralized video/audio** application that works on the peer to peer architecture built on the **WebRTC** protocol and supports audio conferencing, screen sharing and native messaging. Milaap is a **PWA** and runs on all modern platforms.
- Worked on login systems, database cleanup post guest sessions and UI/UX improvements.

---

### AWARDS AND RECOGNITIONS

**National Winners at RFRF Competition | RFRF and IIT Ropar** — Aug 2020
- Winners among **60+ teams and startups** across India

**Winners at HackRx Virtual Hackathon | Bajaj HealthRx** — Jun 2020
- Secured **1st** position among **250+ teams** across India.

**Best All Rounder | Kamalnayan Bajaj High School** — Dec 2017

---

### POSITION OF RESPONSIBILITY

**Project Manager - SDS COEP** — Apr 2021 - Present
- Leading the **project management** for various software development projects in SDS COEP.

**Vice President - CSI COEP Student Chapter** — Mar 2020 - Mar 2021
- Manage and actively work for the CSI COEP Student Chapter comprising of over **300 members.**

**Web Head - TEDx COEP** — Aug 2020 - Sep 2020
- Managed and built the TEDx COEP website.