

HARSHITH P ATHREYA

Bengaluru , India

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Education

RNS Institue Of Technology

Dec 2020 – present

Bachelor of Engineering in Computer Science (*CGPA : 9.22*)

Bengaluru, India

Alva's Pre University College

Jun 2018 – Apr 2020

Pre University Course - PCM + Computer Science (*Percentage : 95.5%*)

Dakshina Kannada, India

Experience

Nokia Networks

Nov 2023 – Jan 2024

Research and Development Intern

Bengaluru, India

- Worked with Cloud and Network Services team .
- Tech Stack : Python , Linux , Docker , Kuberntes.

Projects

FlyEase | *Node.js, Express.js, Micro Services , CRON , MySql , Sequelize ,RabbitMQ (GitHub Link)*

Aug 2023

- Developed an **Airline Reservation Backend** using Node.js and Express.js Framework following **Micro Services** architecture .
- Implemented four different services (**Flights service , Booking service , Notification service** and an **API Gateway**) including a **Reverse Proxy** to *redirect HTTP requests* from *API Gateway* to respective *Micro Services* .
- Written **RESTful API's** for **CRUD** Operations.
- Created an **Idempotent API** for payments in **Booking Service**.
- Implemented **Pub-Sub** (Publisher - Subscriber Model) using **RabbitMQ (Message Broker)** to handle *Notifications* after a successfull *Booking*.
- Used **CRON** to schedule the program to automatically change the *booking status* from *Pending* to *Cancelled* after every *5 mins* of *Initiation* of a *Booking*.
- Used **Rate-Limiter** to prevent multiple requests from the same *IP Address* to prevent from *DDOS* attacks .

IdVerifier | *Java, Firebase, Android Studio (GitHub Link)*

Jun 2023

- Created an **Android application** using Java to *authenticate* and *verify* Hostel Residents.
- Implemented **QR Code** based identification of Hostel Residents , using **ZXing (Zebra Crossing)** Open Source library.
- Used **Firebase Backend As a Service** for **Authentication** and **Storage** .
- Utilized **Firebase Authentication , Firebase Realtime DataBase** and **Firebase Storage** services.
- Implemented **QR Code** based **Exit Pass Requests , Complaint Raising** and **Notifications** from wardens to enhance Communications.

Cp-Helper | *Node.js , Telegraf npm (GitHub Link)*

May 2023

- **Telegram Bot** developed using *Node.js* and *Telegraf npm package*.
- **Axios npm package** to make **HTTP Network Calls** to **Codeforces API**.
- It fetches *Codeforces profile* details swiftly, aiding users with ratings and other useful information.
- Users can interact with the bot to access *code snippets of some standard DSA algorithms*.

Linked List Visualizer | *C++ , OpenGL (GitHub Link)*

Jun 2023

- Project employs **C++** and **OpenGL** to graphically visualize Linked List Operations.
- Graphically Visualizes standard linked list operations for *Singly and Doubly Linked Lists*.

Technical Skills

Languages: C, C++ , Java , JavaScript , SQL , HTML/CSS, NoSQL (*MongoDB*)

Technologies/Frameworks: Node.js , Express.js , Git , GitHub , Firebase , MongoDB , Linux

Databases: MySQL , MongoDB

Developer Tools: VS Code, Postman , MongoDB Compass, Android Studio

Leadership / Extracurricular

BigO CP-Club

Sept 2020 – Present

Active Member

RNS Institue Of Technology

- Framed questions , organized coding contests and conducted teaching sessions on coding .
- Participated and won in various internal coding contests.