

ANANNYA PATRA

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SUMMARY

A software developer with over 2 years of experience building scalable backend systems and designing efficient software solutions. With expertise in Full stack technologies, I am passionate about driving innovative solutions to unravel complex business challenges.

EDUCATION

University of Southern California, Los Angeles

Expected: May 2025

Masters of Science in Computer Science

GPA- 3.82

Relevant Coursework: Data Structure Algorithms, Database, Web Technologies, NLP, Information Retrieval, Machine Learning

- Orchestrated events as **Executive Board** Member of **USC ACM**, enabling collaborative learning experiences for 200+ students.

BMS College of Engineering, Bangalore

Sep 2017- Jul 2021

Bachelor of Engineering in Information Science

GPA- 9.09

- Published **three** research **publications** at IEEE conferences under division of Machine Learning, IOT and Green Computing.

- Secured **70th** rank in **IEEE XTREME** (24 hour hackathon) out of **6000** participating teams worldwide.

PROFESSIONAL EXPERIENCE

Athenahealth

Member of Technical Staff, India

Aug 2022- Jul 2023

Associate Member of Technical Staff, India

Jul 2021–Jul 2022

- Developed over **30** Java **REST APIs** for a healthtech firm's Ambulatory Care Management System module, contributing to a 20% improvement in patient, pharmacy, and provider communication.
- Formulated scalable, concurrent REST APIs with response times around **85ms**, reducing the time physicians spent coordinating with pharmacies from 15 minutes/patient to **3 minutes**, enhancing medication tracking efficiency.
- Implemented Azure telemetry logging and stored procedures for **3** services, improving system storage, system reliability and reduced error resolution time to **15 minutes**.
- Created and optimized database schemas, enhancing data retrieval performance with the addition of **indexes**, resulting in query execution times for CRUD operations as **5 ms** for **~600,000 records**.
- Collaborated with cross-functional teams in India and US to drive key initiatives, like fixing critical transactional annotations for **16** services, enabling proper database entry in case of negative scenarios, fixing rollback errors ensuring ACID compliance.

Athenahealth- Software Intern, India

Jan 2021–Jul 2021

- Revamped prescription-medication hashing logic, preventing the erroneous discard of over **500** prescriptions per week.
- Upgraded** front-end Angular components of Northstar project from **V7 to V10**, decreasing security vulnerability by **25%**.

Bounce - WickedRide Adventure Services Pvt Ltd - Backend Intern, India

Aug 2020–Oct 2020

- Formulated Rest APIs implementing **Geolocation API** and Breadth First Search algorithm for **real-time** scooter **location** tracking to retrieve the location of the nearest available scooter, boosting **user convenience by 78%**.
- Developed and launched an inventory management feature, tracking repair agents and monthly payments, ensuring flawless upkeep of scooters and achieving a **100% maintenance rate**.

TECHNICAL SKILLS

Programming languages: Java, Python, Go Lang, Javascript

Frameworks: Spring Boot, REST API, Flask, Hibernate JPA, Angular, React, JMeter, Node JS, Object Oriented Programming

Cloud/ML: AWS, Google Cloud Platform, CI/CD, Agile, Git, Supervised/Unsupervised Learning, Neural Networks, RAG

Database: SQL Database : MySQL, Oracle DB | NoSQL : MongoDB

Web technologies: HTML, CSS, Tailwind CSS, Bootstrap, jQuery, HTTP, Figma

PROJECTS

NexusAI

Jul 2024

A smarter, more intelligent chatbot designed to elevate your thinking! Powered by the **OpenAI API**, **Langchain**, and **Pinecone** (RAG), Nexus is a **MERN** stack web application, designed to be your go-to companion for solving doubts and discovering new insights.

StockStream

Mar 2024

Created a **MEAN** stack web application, hosted via **GCP**, devised for stock trading and portfolio management, featuring real time updates on stock prices and company's financial data with **Highcharts** graph, and displaying company's current news.

Ideate

Dec 2023

Spearheaded a **Django** application hosted via **AWS**, providing a web platform for users to explore and share inspirational ideas across 10+ categories, resulting in a 25% growth in unique content submissions.