ANANNYA PATRA

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EDUCATION

University of Southern California, Los Angeles   Expected: May 2025
Masters of Science in Computer Science   GPA- 3.83
Relevant Coursework: Analysis of Algorithms, Database Systems, Web Technologies, Natural Language Processing

BMS College of Engineering, Bangalore   August 2017- June 2021
Bachelor of Engineering in Information Science   GPA- 3.87

TECHNICAL SKILLS

Programming languages: Java, Python, GoLang, Javascript
Backend/Cloud technologies: SpringBoot, Flask, REST APIs, Hibernate JPA, JMeter, ActiveMQ, Object Oriented Design, Google Cloud Platform, Amazon Web Services(AWS), Git, Android Application Development, CI/CD, Elastic Search, Kafka(In Progress)
Database: MySQL, Oracle DB, PostgreSQL, MongoDB
Web technologies: Angular, React, HTML, CSS, Bootstrap, jQuery, Node, HTTP

PROFESSIONAL EXPERIENCE   Bangalore, India

Athenahealth- Software Development Engineer   August 2021–July 2023
- Designed **concurrent**, **scalable** features and **30+ REST APIs(CRUD operations)** for the Ambulatory Care Management System module, contributing to **improved** patient care, pharmacy and provider communication by **20%**
- Formulated **REST APIs** with response time of ~**85ms** to send prescriptions to pharmacies, display prescription statuses, and monitor pharmacy responses, improving medication tracking by physicians by **90%**
- Implemented **Azure** telemetry logging for 3 services and crafted **Stored Procedures** to implement data purging mechanisms, resulting in optimized **database storage by 6%** and revamped system maintenance by 10%
- 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
- Played a pivotal role in **fixing transactional annotation** in 16 services, enabling proper database entry and error logging in the event of errors and negative scenarios, fixing rollback errors and ensuring **100% ACID property maintenance**

Athenahealth- Software Intern   January 2021–July 2021
- Led implementation of **revamping hashing** logic for mapping prescriptions and medications correctly, boosting medication accuracy and **patient safety** for **100%** of customers
- **Upgraded** front-end Angular components of Northstar project from **V7 to V10**, decreasing security vulnerability by **25%**

Bounce Scooter Share- Backend Intern   August 2020–October 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**
- Acquired average hit rate for **Dock-less Scooter model at 10,000 hits/s** and scaled system to handle **300,000 users/day**

PROJECTS

Ideate   June 2024
- 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

StockStream   March 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 current news, enhancing 60% user experience

HealthGenix   November 2020
- Designed an **Android** application with **SQLite** DB that provides an online platform for users to buy memberships in desired partner gyms, book group classes based on availability, follow fitness routine, track nutrition intake and generate activity report

ACHIEVEMENTS/LEADERSHIP

- **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
- Received **Best Project With Intent** award for undergraduate project Indoor Air Quality project in 2021
- Orchestrated innovative programs and events as **Executive Board Member of USC ACM** since January 2024, driving 30% growth in active participation and enabling collaborative learning experiences for 200+ students
- Attended 20+ events as a member of **Society of Women Engineers** and organized 5 events for USC SWE association