## **ANANNYA PATRA**

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#### **EDUCATION**

University of Southern California, Los Angeles

Masters of Science in Computer Science

Expected: May 2025 GPA- 3.83

BMS College of Engineering, Bangalore

Bachelor of Engineering in Information Science

June 2021 GPA- 3.87

## TECHNICAL SKILLS

Programming languages: Java, C# .NET, Python, GoLang

Backend/Cloud technologies: SpringBoot, Flask, ActiveMQ, REST APIs, Hibernate JPA, Object Oriented Design, Jmeter, Data

Structures and Algorithms, Google Cloud Platform, ElasticSearch **Database**: MySQL, Oracle DB, PostgreSQL, SQLite, MongoDB

Web technologies: Angular, React, HTML, CSS, JavaScript, Bootstrap, jQuery, Node, HTTP

Other tools: Git, Linux, Android Application Development (Java), Agile Methodology, CI/CD pipeline

## PROFESSIONAL EXPERIENCE

Bangalore, India

### **Athenahealth-Software Development Engineer**

August 2021–July 2023

- Designed **concurrent**, **scalable** features 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

# ACADEMIC PROJECTS

https://github.com/anannya03

Ideate

June 2024- Present

Spearheaded a **Django** application 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 robust **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, and current news, enhancing 60% user experience

Rejuvenate 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, and track nutrition intake

#### ACHIEVEMENTS/LEADERSHIP

- Published three software engineering research publications at IEEE conferences. PublishedPapers.pdf
- Secured 70th rank in IEEE XTREME out of 6000 participating teams worldwide
- 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, participant in WE23