# ANIRUDH NAMBI

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## PROFESSIONAL EXPERIENCE

**Esteem It Solutions,** Software Engineer*, Remote* **Feb 2024 - Present**

- Integrated Open Library API to enable seamless access to a vast collection of book information, providing users with comprehensive and up-to-date book data.
- Developed a robust and scalable web application using Django, React, and PostgreSQL, enabling users to access and manage book information with ease. Utilized Gemini API to provide users with summaries.
- Implemented secure user authentication and authorization using Django's built-in authentication system.

**Apple,** Software Engineering Intern*, Cupertino, CA* **Jun 2023 - Sep 2023**

- Enhanced Frost webtool with APIs and PostgreSQL integration using Django ORM, significantly improving real-time project collaboration and workflow efficiency.
- Implemented XCUITest integration into a Python UI testing web tool, streamlining UI testing workflows and utilizing GitHub for version control and collaboration.
- Optimized page load times and user experience by integrating GraphQL for seamless data fetching.
- Boosted Frost's responsiveness and scalability with asynchronous task execution using RabbitMQ and Celery, eCrafted a suite of unit tests using pytest, driving significant enhancements in software quality, reducing bug reports by 10%, and improving overall software stability.
- Led the development of automation test suites using the XCTest framework in Swift within Xcode for Messages macOS project, reducing manual testing efforts and significantly enhancing project efficiency.

**Virtusa Corporation,** Software Engineer*, India* **Oct 2020 - Dec 2021**

- Designed and developed a microservice using Java, Spring Boot, and Spring Cloud, with RESTful API communication based on user stories and use cases gathered during the requirements phase.
- Leveraged Docker and Kubernetes for containerization and orchestration of microservices, enabling scalability, resilience, and high availability of the system.
- Implemented a custom Role-Based Access Control (RBAC) system using Spring Security, OAuth 2.0, and JWT, ensuring secure and fine-grained access to employee data based on user roles and permissions.
- Implemented a data persistence layer using MySQL and Spring Data JPA, with optimized database schema design and query optimization for efficient data storage and retrieval.
- Conducted extensive testing and quality assurance, utilizing unit testing, integration testing, and end-to-end testing frameworks such as JUnit.
- Orchestrated a seamless migration of health data reports from SAS DWH extracts to high-scale SAS 9.4 Cloud and Amazon Redshift, achieving a 15% cost reduction and improved data processing capabilities and developed comprehensive test design and attestation documents, reducing troubleshooting and testing time by 10% and increasing team productivity.

## EDUCATION

**University of California** Riverside, CA

*Master of Science, Computer Science;* Sep 2022-Dec 2023

***GPA**-3.75/4.0*

***Courses** : Introduction to Deep Learning, Big Data, Advanced Operating Systems, Data Mining Techniques, Database Management Systems.*

**CVR College of Engineering** Hyderabad, India

*Bachelor of Technology, Computer Science, and Engineering;* Aug 2016- Aug 2020

***GPA**-8.9/10.0*

***Courses**: Object Oriented Programming, Data Structures and Algorithms, Computer Architecture.*

## SKILLS

- **Programming Languages & Web Development:** Python, Java, Javascript, C++, C, SAS, PHP, HTML, CSS
- **Data & Databases:** MySQL, SQL, MongoDB, Postgres, Hibernate
- **Machine Learning & AI, DevOps & Containerization:** Scikit-Learn, Pandas, Numpy, BERT, Django, SpringBoot, Express.js, React, Node.js, GraphQL, RabbitMQ, Docker, Kubernetes

## PROJECTS

**Advanced Weather Forecasting System (React, FastAPI, PySpark, Amazon S3, Hadoop)**

- Utilized PySpark within a Hadoop framework to process large-scale weather datasets from Amazon S3, enhancing forecast accuracy, and paired it with React.js and CSS for an engaging, user-friendly interface.
- Developed a robust GBT Regressor machine learning model using PySpark's ML library to predict various temperature metrics, assessing performance with MSE,and R2 metrics.

**Serverless File Upload and Processing System(AWS services, React) :**

- Implemented a frontend page using React, TailwindCSS, to receive text and file inputs, generating pre-signed URLs for direct browser uploads to S3 bucket, and stored input data in DynamoDB Table using API Gateway and Lambda
- Optimized resource utilization by configuring a DynamoDB event stream to invoke a Lambda function that provisions and deprovisions EC2 instances on-demand to run a script, managed AWS infrastructure using CDK, and developed Lambda functions using the SDK.

**Secure Two phase Data Deduplication(HTML,CSS, Javascript,Java,SHA1, AES,MySql) :**

- Developed a secure file storage system utilizing **AES** encryption and deduplication for efficient storage and bandwidth usage.
- Designed and coded Java Servlets for file upload, download, and update functionalities.Employed SHA-1 hashing for data integrity and security.