

# Narasimha Naidu Kommi

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## EDUCATION

- **Master's in Computer Science - University Of North Carolina at Charlotte** Charlotte, NC  
Course work: Full-Stack Web Development, Database Systems, Cloud Services ; **GPA: 4/4** Aug 2022 - Dec 2023
- **Bachelor's in Computer Science - Lovely Professional University** Phagwara, India  
Course work: Software Engineering, Data Structures - Algorithms, Java ; **GPA: 3.9/4** Aug 2017 - Jun 2021

## TECHNICAL SKILLS

- **Programming Languages:** Java, Python, C++, JavaScript, HTML, CSS.
- **Frameworks:** ReactJS, NodeJS, SpringBoot, Hibernate, GraphQL, REST APIs, Object-oriented design.
- **Database Systems:** PostgreSQL, Oracle, SQL Server, MySQL.
- **Cloud Services/Software Tools:** AWS, Liquibase, Grafana, Postgraphile, Git, Docker, Postman.

## WORK EXPERIENCE

- **Software Engineer** Chennai, India  
Syscloud Aug 2020 - July 2022
  - **Batch Framework:** Designed and developed a centralized framework in collaboration with Application engineers to execute scheduled jobs with AWS Batch, resulting in a significant **58%** reduction in operational costs.
  - **PostgreSQL Schema:** Collaborated with design engineers to refactor approximately **1500 PL/SQL** database functions and stored procedures for the Beta version. Successfully implemented corresponding **GraphQL** Queries.
  - **Health Dashboard:** Contributed significantly to shaping the **System Health dashboards**, introducing enhanced functionalities, additional data for monitoring databases, and proactive alerts to maintain optimal performance. This effort reduced system downtime by **15%**.
  - **Meta DataLayer Framework:** Worked on Meta Data Layer Framework, used to scale multi-cloud SaaS application backup and restore in the cloud by auto-generating SQL and GraphQL queries within **10 seconds** to feed into Postgraphile. Received external assistance from **Benjie Gillam**, the creator of Postgraphile.
  - **Migration:** Led the development efforts of **AWS DMS** tasks, facilitating the successful migration of **50%** of customers from an older version of the product (MSSQL) to the beta version (PostgreSQL).
  - **Weekly Report:** Designed and built a production-ready framework using DynamoDB, AWS SES to send weekly reports to over **60,000** users regarding disk and credit usage in the product.
- **Software Engineer Intern** Chennai, India  
Syscloud March 2020 - Aug 2020
  - **Liquibase Setup:** Established **CI/CD pipelines** for deploying PostgreSQL database schemas with Liquibase, resulting in a notable **45%** reduction in deployment time.
  - **Grafana Visualization:** Implemented various types of **Grafana dashboards** to visualize and track different errors and user actions, significantly reducing ticket resolution time by **40%**.
  - **Code Quality Enhancement:** Created **technical documentation** defining system components and implementing effective strategies to enhance code quality for all 3 versions of the product.

## PROJECTS

- **TradeXchange:** (MVC Architecture, Node.js, Express.js, AWS Services)
  - **Functionality:** Developed a trading platform with an **MVC architecture** that enables authenticated users to trade items, with features like offer creation, watchlist management, and secure authentication.
- **FaceParsing:** (DeepLabV3, PyTorch, Swift, XCode)
  - **Functionality:** Utilized **Core Machine Learning models** for precise facial feature segmentation through Face Parsing and Object Segmentation. Leveraged the **DeepLabv3** machine learning model to develop a mobile application with practical applications in facial recognition and expression analysis.
- **BookTracker:** (Tech Stack: HTML, CSS, JavaScript, React.js)
  - **Functionality:** Streamlined student book management through a comprehensive **web application** that serves three distinct user types. Facilitated efficient record-keeping of issued books, tracking borrowed books, due dates, and real-time availability.

## CERTIFICATIONS

- **AWS Certified Solutions Architect(10/2023-10/2026):** Certified by AWS.
- **Full-Stack Web Development (04/2021):** Certified by Coding Ninjas.