# CHANDUNATH MALEPATI

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## PROFESSIONAL SUMMARY

Full Stack & Backend Engineer with 3+ years of experience building **low-latency, highly available, and scalable distributed systems**. Proven record in designing APIs, event-driven pipelines, and big data workflows that process millions of records and power mission-critical services. Adept at **Java, Python, distributed architectures, microservices, and cloud platforms** (AWS, Azure) with a focus on reliability, performance, and operational excellence.

## TECHNICAL SKILLS

- **Languages:** Java, Python, C++, JavaScript, TypeScript, Scala, SQL
- **Frameworks & Libraries:** Spring MVC, Spring Boot, React.js, Vert.x, Angular
- **Cloud & DevOps**: AWS (Lambda, CDK, EC2, CloudWatch), Azure, Jenkins, Git, Docker, GraphQL
- **Microservices & APIs**: REST API Design, Microservices Architecture, OAuth2, Swagger
- **Front-End Development**: Responsive UI, Redux, Vuex, Cross-Browser Testing, Canvas, SVG
- **Data & Databases**: PostgreSQL, MySQL, MongoDB, SQL Server, DynamoDB
- **Big Data & ETL**: Apache Spark, Hive, Kafka, Azure Data Factory, SSIS, Apache NiFi
- **Visualization**: Power BI, Tableau
- **Tools**: JIRA, Putty, PyCharm, Eclipse, SSMS
- **Operating Systems**: Windows, Linux, MacOS

## PROFESSIONAL EXPERIENCE

**Amazon Web Services(AWS)**                                                                                              **Jan'25 – Present**
**Software Development Engineer**

- Developed microservices for **Amazon S3 Express One Zone**, improving latency by 15% and supporting scalable SaaS infrastructure.
- Designed and deployed **RESTful APIs using Java and AWS Lambda** with robust security protocols.
- Built and maintained infrastructure using **AWS CDK** for CI/CD-enabled production environments.
- Created interactive **React-based frontends** with data visualizations using SVG and Canvas.
- Integrated CloudWatch Dashboards for real-time monitoring and proactive troubleshooting.
- **Developed and deployed a Python-based data processing pipeline on AWS**, improving data processing efficiency by **40%** through the implementation of **CI/CD practices**.
- Contributed to Agile ceremonies and on-call rotations, supporting rapid feature delivery and incident response.

**Infinite Computer Solutions**                                                                                              **June'24 – Dec'24**
**Full Stack Developer**

- Successfully led the migration of legacy systems to **microservices-based architecture** using **Spring Boot** and **Docker**, significantly improving scalability, performance, and long-term maintainability of critical systems.
- Developed and maintained frontend components for large-scale web applications using **Angular 14**, implementing responsive designs and interactive user interfaces aligned with modern **UI/UX** specifications and standards.
- Utilized **NgRx** for advanced state management and **RxJS** for reactive programming in Angular projects, ensuring efficient state handling, seamless asynchronous event management, and improved code maintainability.
- Built scalable **RESTful APIs** with **Spring Boot**, implementing **OAuth 2.0** protocols for secure authentication and authorization while integrating **Redis** for high-performance caching and data retrieval optimization.
- Deployed **Spring Boot microservices** as containerized applications using **Docker** and **Kubernetes** on **AWS EC2**, improving system scalability, deployment efficiency, and reducing deployment time by 40%.
- Integrated **AWS Lambda** for serverless event-driven processing and used **AWS SQS** and AWS SNS for message queuing and notification services, ensuring high availability and fault tolerance.

- Configured **Oracle**, **MySQL**, and **Cassandra** databases with Hibernate ORM, writing optimized queries and improving entity relationships, reducing query response time by 25% and enhancing application performance.
- Automated infrastructure provisioning with **Terraform** and managed **Continuous Integration (CI) and Continuous Delivery (CD)** pipelines using **Jenkins**, **Docker**, and **AWS services**, ensuring reliable, fast, and consistent software delivery across environments.

**Capgemini**                                                                                          **April'21 – Aug'22**

**Software Analyst**

- Developed **Spring Boot** microservices and front-end modules using **Angular** for healthcare analytics and reporting platforms.
- Utilized **Azure Data Factory** and **Databricks** for ETL workflows supporting real-time dashboards.
- Integrated animated visual elements using CSS transitions for a more dynamic user experience.
- Designed and integrated **APIs with real-time data pipelines** for client-facing visual tools.
- Utilized DevOps practices including **CI/CD pipelines** and code quality gates.
- Supported team efforts to ensure scalable delivery and frequent feature rollouts in multi-tenant environments.

**Codetru**                                                                                          **Feb'21 – April' 21**

**Software Engineer**

- Built end-to-end analytics platforms combining back-end logic and front-end data dashboards.
- Developed single-page applications using **JavaScript and React for user interaction** with data tools.
- Improved user interactivity and responsiveness for business dashboards using **REST API integration**.
- Added SVG elements and CSS-based animations to enrich dashboard interactivity.
- Supported deployment and maintenance of **SaaS-style platforms on Azure**.

## EDUCATION

- Master of Science in Information Technology                                    University of North Texas | May'24
- Bachelor's in Computer Science & Engineering                                    Gitam University | June'20

## ACADEMIC AND PERSONAL PROJECTS

**University Admission Prediction using Machine Learning**

- Designed an ML model that predicts the chances of admission into university based on Student GRE score, IELTS or TOEFL score, SOP and LOR and other important factors.
- Performed Data Cleaning, Exploratory Data Analysis and Linear Discriminant Analysis for better understanding of the model Employed Machine learning algorithms such as KNN, Linear & Logistic Regression to understand and predict the Chances of Admission, Achieving ~ 80% accuracy.

**Automated Toll Tax Collection**

- Developed using the Arduino Tool and RFID Tags to automates the toll tax collection process. RFID Sender is fixed to the vehicle which will send the signal and received by the RFID Receiver and calculates the toll amount and the amount to be deducted.

**Walmart Sales Data Analysis**

- Developed a report to get meaningful insights of the sales in different departments from the data sets taken.
- Follow data analyses steps from collecting data to cleaning data and making data free from anomalies.
- Using best fit data visualization methods as data visualization is an important part of the whole process.

## PUBLICATIONS

- Published a Paper on Prediction for University Admission Using Machine Learning in International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878 (Online), Volume-8 Issue-6, March 2020.