

# AKHIL REDDY YEREDLA

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## **PROFESSIONAL EXPERIENCE**

### **Software Development Engineer, Amazon, USA**

September 2022 – Present

- Developed and implemented algorithms to detect inaccuracies in multi-million-dollar asset entries, reducing Amazon's tax obligations by over \$1 million and enhancing the accuracy of financial records.
- Engineered a scalable, distributed data processing and asset verification system using TypeScript, Java, and AWS services (DynamoDB, SQS, Lambda, SNS, Glue, Kinesis, S3), ensuring efficient data management across multiple global regions.
- Designed a user-friendly interface for Amazon's Tax Team, automating asset verification processes across global locations. This solution streamlined asset lifecycle management, enhanced tax compliance, and saved 2,500 hours annually by reducing manual processing.
- Built the UI using React, along with AppSync and GraphQL, to deliver a secure and seamless platform for real-time asset tracking and validation.

### **Team Lead, Platform Development, Eunimart, India**

January 2019 - January 2021

- Led the design of a Warehouse Management System, integrating sourcing, local warehousing, and virtual warehousing capabilities to enhance supply chain efficiency.
- Integrated Alibaba as a sourcing partner and introduced racking automation in local warehouses, which improved inventory handling and reduced operational delays based on demand and supply trends.
- Mentored a team of 15, establishing best practices to ensure high software quality, which led to increased productivity and accelerated project delivery timelines.
- Developed a user management service that enabled admins to control user access, streamline onboarding and offboarding, and improve platform security and compliance.

### **Software Developer, Eunimart, India**

July 2018 – December 2018

- Developed a centralized order management system for 10 marketplaces, including Amazon, Flipkart, and eBay, to streamline multi-platform order, inventory, and price management, enhancing operational efficiency with a microservices-based architecture.
- Automated order data collection with cron jobs every 15 minutes using REST APIs, ensuring timely updates and reducing manual workload.
- Created RESTful APIs with Flask and RabbitMQ for ETL operations, optimizing data workflows across the platform.
- Implemented API Gateway for secure authorization and authentication, utilizing RDS for user data management to enhance data security and reliability.
- Built a scalable POS system with RFID support, enabling real-time inventory updates and improving the in-store customer experience.
- Integrated 8 shipping partners and 2 payment gateways, reducing order fulfilment time by 50%.

### **Software Intern, Eunimart, India**

December 2017 – June 2018

- Built a scalable crawler infrastructure using Python and BeautifulSoup to extract categories, subcategories, product details, reviews, and seller information from 8+ e-commerce websites, supporting competitive pricing and inventory management strategies.
- Established a data pipeline between instances and GCP Bigtable for crawler data storage, ensuring seamless data flow and reliable storage for large-scale data processing.
- Developed an internal notification system using Redis to alert teams in real time, improving response times and operational readiness.

## **EDUCATION**

### **State University of New York at Buffalo**

Buffalo, NY

### **Masters in Computer Science**

August 2022

Relevant Coursework: Algorithms Analysis & Design, Intro PDP, Distributed System, Intro Machine Learning, Data Computing.

### **KL University**

Vijayawada, India

### **Bachelor of Technology in Computer Science and Engineering**

June 2018

Relevant Coursework: Data Structures, Database Management Systems, Data Warehousing and Mining, and Operating Systems.

## **TECHNICAL SKILLS**

**Languages:** Python, Java, C, JavaScript, TypeScript, HTML, CSS.

**Front-End & Frameworks:** React, GraphQL, Flask, Django, REST API, Node.js.

**AWS:** EC2, RDS, AppSync, SQS, SNS, Kinesis, S3, CloudWatch, Lambda, API Gateway, CloudFormation, Glue.

**Databases & other tools:** MySQL, NoSQL, MongoDB, DynamoDB, Git, Unit testing, Integration Testing.

## **AWARDS & HONORS**

Awarded Employee of quarter 1 and quarter 4 in 2019 at Eunimart for extraordinary work on Warehouse Management System