

# Ruchir Nakra

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## WORK EXPERIENCE

### HERE TECHNOLOGIES | SOFTWARE DEVELOPMENT ENGINEER

Mumbai, India | Mar 2023 - May 2024

- Led the development of a **Scala**-based component that specializes in attribute validation and **geometry point recalibration**, integrated as a step in **EMR workflows**.
- Developed an algorithm-driven library to detect and resolve road geometry kinks by analyzing angles between shape points. This solution resulted in a **95% reduction** of kinks, improving map accuracy and data precision.
- Automated configuration file creation, enabling rapid job setup by specifying parameters, reducing manual input errors and improving team productivity.
- Designed and implemented a comprehensive test suite for configuration validation, significantly **improving CI/CD reliability and deployment stability**.

### AMAZON | SOFTWARE DEVELOPMENT ENGINEER

Bangalore, India | Jul 2022 - Mar 2023

- **Contributed to Amazon Go's IHM Operational Intelligence team**, focused on developing a data and ML platform for operational optimization.
- **Engineered extensible data connectors** for an ETL library, leveraging best practice design patterns.
- Spearheaded the migration of the Weight Sensor Validation service from a legacy CI/CD system to AWS CDK.
- Authored Infrastructure as Code for the Weight Sensor Validation service using **AWS CDK and CloudFormation**.
- Exhibited strong ownership by actively participating in the full SDLC, from development to production deployment.
- **Utilized a suite of AWS services** including Lambda, API Gateway, WAF, and Route 53.
- **Developed a Lambda-based custom resource** to dynamically configure API Gateway domains and A-Records based on deployment stage and region for Amazon Go stores.
- **Created a Resource Provisioner service** for dynamic retrieval of interdependent resources such as IAM Roles and VPC Interface Endpoints.

### PAYPAL | SOFTWARE DEVELOPMENT ENGINEER INTERN

Chennai, India | Feb 2022 - Jun 2022

- Developed a custom **React hook** for real-time tracking of widget performance, pushing metrics to a performance tracker API.
- Architected and executed a performance dashboard using **React**, offering an in-depth view into widget metrics.
- **Engineered a NodeJS application** to fetch and cache performance data from Looker into a **MySQL** database at periodic intervals.
- **Optimized data retrieval** by sourcing it from a MySQL cache instead of Looker, resulting in cost reduction and 10x faster response times.
- **Enhanced the dashboard** with features like data visualization through tables and graphs, along with filter and sort functionalities.

### CODING NINJAS | TEACHING ASSISTANT (TA)

Remote, India | Mar 2020 - July 2020

- Served as a Teaching Assistant for **Data Structures and Algorithms in Java**.
- Mentored over 20 students, providing code reviews and debugging assistance.

## EDUCATION

### B.Tech in Computer Science

Chennai, India | July 2018 - May 2022

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

CGPA: 9.42

## SKILLS

**Languages:** Java, C++, Javascript, TypeScript, Scala

**Library/Frameworks:** React, JavaScript, NodeJS, ExpressJS, Spring Boot

**Cloud Technology:** AWS