

KRISHNA CHARAN THOTA

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PROFESSIONAL EXPERIENCE

Software Development Engineer, Amazon.com Services LLC, Bellevue, WA

Oct 2022 – present

- Developed a high-performance **API** using **Java** integrated with **DynamoDB**, reducing **data retrieval** times by 29% and improving **operational efficiency** and ensuring code **maintainability** through structured **design patterns** and best practices. Utilized **Kubernetes** for container orchestration and **Git** for **version control**.
- Architected **ETL** processes for 1.2 billion metadata records, consolidating data into a centralized **Redshift data warehouse**. This reduced reporting time by 27% and improved **decision-making** accuracy, leveraging **SQL**.
- Designed a pre-production environment with **AWS Code Pipeline**, utilizing **CDK** in TypeScript to configure **AWS** resources ensuring issue resolution before production **deployment**, minimizing risks by **monitoring** and **logging**.
- Developed responsive **UIs** with **React.js**, optimized state management with **Redux**, and implemented **lazy loading** with **Jest/Cypress** tests, reducing load times by 20% and enhancing **frontend** performance.
- Leveraged a wide range of **AWS** services, including **API Gateway**, **S3**, **SQS**, **CloudWatch**, **CloudFormation**, **IAM**, **ECS**, **Fargate**, and **CDK**, to **design**, **develop**, and **deploy** scalable and secure **cloud-native applications**.
- Led full **SDLC** from requirement **gathering**, **design** and **testing** to **deployment** for high-quality **Java** applications, achieving a 98% on-time delivery rate and consistently meeting or exceeding client expectations.
- As **Scrum Master**, led initiatives for continuous process improvement, enhancing team **productivity** by 15% and promoted cross-functional collaboration through **Agile practices** and actively contributed to **on-call rotations**.

Software Engineer, Uclid IT India Private Limited, India

May 2020 – Jul 2021

- Extensive experience in **Object-Oriented Programming (OOP)** principles and **design patterns**, **debugging**, enabling the development of **modular**, **maintainable**, and **extensible Java codebases** and **test-driven** development.
- Adept in **RESTful** architecture and **microservices** development, leveraging **Spring Boot framework** and **Spring Cloud** to build **cloud-native**, **distributed** systems with seamless integration to **NoSQL** databases.
- Proficient in unit testing using **JUnit** framework, promoting **code quality**, **refactoring** and **maintenance** of **Java codebases**, utilizing **Bash**, **Kubernetes**, **Git**, **Jenkins**, and **Maven** for seamless and reliable software delivery.
- Proven **leadership skills**, having **led** a team of 4 developers in developing and upgrading **Java applications**, resulting in a 35% **performance** improvement, increased **test coverage**, and enhanced **user experience**.

Software Developer, AbhiBus Services India Private Limited, India

Dec 2019 – Apr 2020

- Developed **Python** application with **React.js front-end**, utilizing **HTML** and **CSS** for **responsive** and visually appealing **web pages**, enabling competitor **data extraction** and **comparative analysis**.
- Engineered a high-performing **machine learning** algorithm in **Python** with a 90.4% accuracy rate for **predictive analysis**, seamlessly integrating it into the **React.js** front-end for real-time **data prediction** and **display**.
- Conducted factor analysis using **Python** and integrated the results into the **React.js** user interface, providing **intuitive data visualization** components for effective **interpretation** and **strategic insights**.

SKILLS

Programming Languages: Java, TypeScript, JavaScript, HTML, CSS, Bash, Golang, Python, XML

Cloud & Databases: AWS (API Gateway, S3, SQS, CloudWatch, CloudFormation, IAM, ECS, Fargate, EC2, CDK), DynamoDB, AWS Redshift, MySQL

Frameworks/Libraries: Spring, Spring Boot, Spring Cloud, JUnit, Mockito, React.js, Coral

Containerization: Docker, Kubernetes

Development Tools: Git, GitHub, Maven, Brazil, Jenkins, Agile/Scrum, QuickSight, Asana, Quip, Jira, CI/CD

Operating Systems: Linux, Windows

CERTIFICATES

- AWS Solutions Architect Associate

EDUCATION

Master of Professional Studies in Data Sciences and Applications,
University at Buffalo, State University of New York

Aug 2022

Bachelors, Computer Science and Engineering,
Vignan's Foundation for Science Technology and Research

May 2020