

KRISHNA CHARAN THOTA

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PROFESSIONAL EXPERIENCE

Software Development Engineer,

Oct 2022 – present

Amazon.com Services LLC, Bellevue, WA

- Designed 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.
- Executed a **throttling** configuration, limiting concurrent request and mitigating high traffic scenarios and preventing service outage, resulting in a 95% reduction in service disruptions during peak load periods.
- 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

- Engineered modular **Java** applications using **OOP** principles, resulting in a **30%** reduction in **debugging** time and enabling **streamlined** maintenance for five critical software projects throughout the **software development** lifecycle.
- Skilled 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** by **leading** a 5 member cross functional teams in developing, support and upgrading **applications**, resulting in 35% **performance** improvement, increased **test coverage**, and enhanced **user experience**.

Software Dev Intern, AbhiBus Services India Private Limited, India

Dec 2019 – Apr 2020

- Implemented a robust **Python** application featuring a **HTML** and **CSS** front-end to display extracted **competitor data**, resulting in enhanced comparative analysis capabilities and reducing manual research time by 50 hours each month.
- 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** for real-time data prediction and display.
- Conducted **factor analysis** 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, PHP
Cloud & Databases: AWS (API Gateway, S3, SQS, CloudWatch, CloudFormation, IAM, ECS, Fargate, EC2, CDK), DynamoDB, AWS Redshift, MySQL, Oracle, PostgreSQL, MongoDB
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

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

Aug 2022

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

May 2020