CHAITANYA NALLANUKALA

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Work History

Software Engineer, 08/2022 to Current

TEKhops – Irving, TX

- Achieving a 30% enhancement in scalability, I am currently engaged in web development projects that utilize JavaScript, Angular 12, and HTML5, along with backend development using Java 11. These projects are hosted on AWS, capitalizing on its extensive cloud infrastructure.

- Developing critical features with Java and Spring Boot for RESTful services and implementing a GraphQL schema for improved data access efficiency, resulting in a 20% increase in query performance, with data management in AWS RDS using PostgreSQL.

- Implementing performance-critical C++ components for system-level applications, optimizing computational efficiency, which has boosted performance by 15%. These components interface with Java applications via JNI for seamless integration into web-based solutions.

- Integrating streaming APIs in Java for real-time data processing on GCP, utilizing Spring WebFlux for reactive programming to ensure efficient data flow and improved system responsiveness.

- Enhancing microservices communication with Kafka on Microsoft Azure, which has contributed to a 25% improvement in system integration and scalability. Also developing dynamic UI components with ReactJS, connecting to REST APIs and GraphQL endpoints managed via Azure's cloud services.

- Managing PostgreSQL database operations, focusing on optimizing data storage and retrieval, leveraging cloud scalability designed for high efficiency on both AWS and Azure platforms.

Graduate Assistant, 01/2022 to 05/2022

University Of Arkansas at Little Rock – Little Rock, AR

- Tutored 40 students in "Fundamentals of Computer Science" and "Logic in Programming," helpingthem enhance their understanding of logical concepts in Computer Science.

- Conducted weekly office hours for "Data Structures & Algorithms" and "Introduction toProgramming," contributing to a 65% increase in students' assignment grades.
- Engaged in discussions on "Discrete Mathematics for Computing" and "Analytical Methods in Computer Science," focusing on discrete objects and algorithmic analysis.
- Graded weekly assignments for courses like "Advanced Algorithms" and "ProgrammingParadigms," requiring thorough tracing and evaluation of solutions.

Software Engineer, 05/2019 to 07/2021

Capgemini – Hyderabad, India

- Achieved a 40% improvement in issue resolution times, I created a Helpdesk and Ticketing Platform using PHP and JavaScript at Capgemini, which was hosted on Microsoft Azure. This platform integrated Azure SQL Database for data management and Python for analytics.
- Developed a Billing and Recovery System using Java and JavaScript, with Python for data analytics. The system was deployed on AWS (Amazon Web Services), utilizing services like EC2and RDS for robust data handling and scalability. This implementation streamlined billing processes, leveraging cloud efficiencies.
- Led a project to optimize existing algorithms using C++, significantly reducing the runtime andenhancing the performance of data-intensive applications. This included developing and maintaining complex C++ libraries and integrating them with the company's existing Java and Python codebases.
- Designed a User Feedback Module with JavaScript (D3.js) for text analytics, hosted on Google Cloud Platform (GCP). This utilized Big Query for handling large datasets and provided insights forfeature enhancements and prioritization.
- Focused on identifying and fixing software defects, especially in cloud-based applications. Ensured data integrity and security in cloud environments, maintaining detailed documentation for systemsdeployed on AWS and Azure.

Education

Master of Science: Computer & Information Science-Information Quality, 06/2023
University of Arkansas - Little Rock, AR

Bachelor of Science: Electronics and Communications Engineering, 09/2020
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Skills

- **Programming Languages:** Java (including 11 and 17), C++, JavaScript, Python, PHP,SQL.
- **Frameworks and Libraries:** Spring Boot, Spring MVC, Spring Framework, Apache Kafka, Apache
- **Web Development:** Angular 12, HTML5, CSS React.js, Node.js, J2EE
- **Cloud Computing and Platforms:** GCP, AWS, Microsoft Azure, Kubernetes

- **Database Management:** PgSQL,NoSQL
- **Software Development Practices:** Agile Methodologies, Testing, Unit Testing, Microservices, OOP
- **Tools and IDEs:** IntelliJ IDEA, Visual Studio, UI Development

PARTICIPATIONS

- **Tri-Co Hackathon**-: Worked in a team of 4 to create a sustainability website for the college dining center in Python, R, HTML/CSS. Gathered and analyzed food data for 2 months and implementedmethods to reduce food waste by 55%. Won 2nd position for people's choice.
- **Grow with Google:** Attended workshops at Grow with Google to improve my technical and digitalskills. Learned the usage of Google Suite in business and finance.
- Volunteered in the "Young Achievers" youth empowerment program conducted by theInternational Association of Lions.

PROJECTS

- Designed Several Web Pages for Fun
- Student Management System
- Task Tracker Application
- Online Quiz Platform
- E-commerce Website
- Hospital Management system
- Mondrian Painting with CSS and HTML
- Design Agency

Certifications

- Java Programming Masterclass 11 & Java 17-Udemy
- Cloud Computing and Amazon Web Services-Udemy
- Angular - The Complete Guide-Udemy
- Practical Spring Boot Microservices-Udemy