AADHITHYA VIJAYAKUMAR

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EDUCATION

University of Utah, Salt Lake City, UT: Master of Science in Information Systems — **Dec 2023**
Anna University, Chennai, IN: Bachelor of Engineering in Electronics and Communication — **Apr 2021**

TECHNICAL SKILLS

Programming	: Python, Java, C#, C++, HTML, CSS, JavaScript, TypeScript, Linux
Database	: MySQL, PostgreSQL, SQL Server, Apache Cassandra, MongoDB
Frameworks	: Django, Spring,.NET, React.js, AngularJS, Node.js, Kafka, Pytest, JUnit, Jest, REST
Tools and IDE	: PyCharm, IntelliJ, Visual Studio, SQL Developer, Jenkins, Kubernetes, Postman, Jira
Cloud	: Amazon Web Services (AWS), Google Cloud Platform (GCP)
Version Control	: Git, GitHub

EXPERIENCE

Web Software Developer | University of Utah   **Aug 2023 - Present**
- Designed an application to support easy scheduling of class meetings using Java, Spring Boot, Hibernate, coupled with JavaScript and React.js, and MySQL database, **reducing administrative workload by 40%.**
- Analyzed Zoom meeting interactions and related details by establishing streamlined API connections, incorporating C++ web scraping techniques and utilizing OAuth 2.0 tokens for secure access.
- Crafted intuitive data visualizations based on the derived data analysis, **providing detailed insights**.
- Engineered a Student Field Tracker app integrating AngularJS, C# and ASP.NET with NUnit, REST APIs, and MS SQL Server**, increasing data retrieval speed by 60%.**
- Collaborated with the cloud team to integrate the database and deploy the codebase using AWS DevOps pipelines, **enhancing cloud application performance**.

Software Development Intern | Grid Elevated   **Jan 2023 - Aug 2023**
- Deployed Apache Kafka for real-time data streaming, **reducing data latency and improving data processing.**
- Engineered robust SSL/TLS encryption standards that safeguarded the transport of client data, resulting in zero data breaches reported over a 6-month period and **bolstering client confidence in service reliability**.
- Created an innovative data processing solution using object-oriented programming principles in Python; this initiative resulted in the successful migration of 300+ client databases, **enhancing data integrity and accuracy**.
- Created a high-performance, client-accessible website with React.js, Redux, and JavaScript; implemented advanced encryption using C++, CMake, and Python, **driving a 40% surge in client engagement**.
- Integrated the database in AWS RDS and hosted the codebase in AWS EC2, thus improving scalability.

Software Engineering Consultant | JPMorgan Chase & Co   **Oct 2021 - Jul 2022**
- Developed and optimized secure transaction processing workflows in Java Spring Boot Microservices and Spring MVC with Maven, streamlining payment processes for clients, **enhancing transaction accuracy by 30%.**
- **Enhanced system reliability** through rigorous TDD practices, performing frequent unit tests with JUnit and Mockito, resulting in a decrease in production errors.
- Streamlined the CI/CD process through Jenkins and Kubernetes, **achieving a reduction in deployment errors** and maintaining seamless application availability across different release versions.
- Refined code repository management, **increasing cross-functional team collaboration efficiency and reducing build errors** through the implementation of automated version control processes.
- Facilitated agile frameworks to construct and administer detailed user stories via Atlassian Jira and Confluence.

Software Developer Intern | John Wiley & Sons, Inc.   **May 2021 - Oct 2021**
- Designed innovative user-friendly interfaces with technologies like React.js, HTML5 and CSS3, JavaScript and jQuery while simultaneously, developing robust server-side logic and APIs using Java, Python.
- Transformed complex data systems across SQL and NoSQL databases, **boosting retrieval efficiency by 40%.**
- Championed the development of 18 comprehensive automation test scenarios aimed at ensuring cross-browser compatibility, which **resulted in a 90% success rate during the initial testing phase**, enhancing user experience.
- Architected a robust Online Retail Store Application utilizing Spring Boot, React.js, and REST APIs; optimized MySQL queries, boosting user engagement.

PROJECTS & CERTIFICATIONS

- **Quiz Master Application:** Pioneered an application using Python and SQL, allowing students to select and complete quizzes, categorized by topics, with flexible question choices and automated percentage calculation.
- **AWS Certified** Solutions Architect Associate.
- **Oracle Certified** Java Associate.