Royston Fernandes

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Education

Arizona State University — Tempe, AZ
Master of Science in Computer Science — *August 2024 – Present*

Manipal Institute of Technology — Manipal, India
Bachelor of Technology in Information Technology under SAGES scholarship — *July 2018 – July 2022*

Experience

Analyst-Software Developer — July 2022 – June 2024
BlackRock Inc. — *Gurugram, India*

- Developed microservices to automate the settling of offers using Spring and Hibernate that streamlined transaction settlements across multiple financial products, increasing operational efficiency by 35%. Additionally, enhanced the service by optimizing database interactions and reducing latency through effective caching strategies with Ignite.
- Created a risk-based capital calculator for client portfolios using React, Spring and internal dashboard tools, enabling detailed analysis and reporting of financial risks. The calculator currently supports 1,000+ clients, providing real-time insights into capital requirements and aiding in strategic decision-making for portfolio management.
- Leveraged Apache Ignite events and internal messaging tools to significantly decrease application processing time for ID queries by 15%. Improved data retrieval speeds and optimized event handling processes, contributing to faster transaction processing and a more responsive application experience for end-users
- Automated compliance enforcement for financial transactions using Bash scripts, reducing manual oversight by 80% and ensuring 100% adherence to regulatory policies.
- Collaborated closely with clients and cross-functional teams to rewrite complex loan allocation algorithms using the Spring framework. Integrated a robust API for seamless cloud deployment, ensuring scalability across various environments.
- Designed and integrated APIs for cloud deployment on Azure, enabling dynamic scaling for a global user base, improving uptime and reducing deployment effort by 20%.
- Validated the system's functionality with comprehensive testing frameworks, including JUnit and Cucumber, implementing behavior-driven development (BDD) tests to increase test coverage by 10 percent across the codebase.
- Mentored and provided Knowledge Transfer sessions to new hires and interns, facilitating their onboarding and accelerating their productivity within the team.

Intern — January 2022 – July 2022
BlackRock Inc. — *Gurugram, India*

- Researched and compared distributed caching technologies, Redis and Apache Ignite, to evaluate their performance in a microservices architecture.
- Developed a Spring Boot application using the Hibernate framework to load data into cache nodes and displayed critical metrics on a Grafana dashboard using Prometheus, demonstrating Redis's potential to reduce data retrieval time by 15%.
- Collaborated with experienced developers to provide practical examples for Redis implementation, illustrating its impact on reducing application throughput time and improving the efficiency of large-scale distributed systems.

Data Science Intern — June 2021 – August 2021
247.ai — *Bangalore, India*

- Developed a wait time estimation model using Machine Learning algorithms to predict customer wait times on hotline calls, improving customer experience.
- Visualized model results with Microsoft Power BI and integrated system demonstration, highlighting potential to boost user satisfaction and drive an expected 18% increase in business revenue.

Technical Skills

Languages: C++, C, Java, HTML, CSS, JavaScript, Python, SQL, Embedded C, PHP, Kotlin
Frameworks: Spring, Maven, React, Node.js, Hibernate, Apache Ignite, JUnit, Flutter, Redis, Postman, Grafana, MongoDB, Cucumber, Mockito, PostgreSQL, UNIX
Developer Tools: Git, Docker, Microsoft Azure, Visual Studio, PyCharm, IntelliJ, Microsoft Power BI