Shakir Abdullayev

https://www.abdullayev.dev

■ s.abdullayev@mail.utoronto.ca 🛅 linkedin.com/in/shakir-abd-000 🕥 github.com/gratus00

Education

University of Toronto

Honors Bachelor of Science - Computer Science Specialist and Business Minor

Awards

UTM Entrance Scholarship - Merit based award for students with a distinguished academic record

Experience

Veeva Systems | Software Engineer

May 2023 - May 2024

- Optimized high-demand infrastructure handling 20 million+ monthly requests with AWS, Kubernetes, and Prometheus to improve efficiency.
- Enhanced system reliability by resolving critical multi threaded code which affected cluster node availability for our customers.
- Proactively led a comprehensive cybersecurity audit to analyze dependencies and address potential vulnerabilities.
- Upgraded AWS instances across regional clusters, maintaining compatibility and continuous service availability.
- Utilized SOLID design principles to code applications on Java Spring Boot while creating comprehensive testing using Mockito and Junit as testing frameworks, while maintaining 99% code coverage

TD Bank Canada | DevOps Software Engineer

May 2022 - September 2022

- Enhanced the **KPI project** used by the C-suit and executives of the Platforms and Technology Division, contributing to improved performance metrics and operational insights.
- Streamlined project pipelines using **DevOps tools** such as Bitbucket, Jenkins, GitHub Actions
- Engineered a webhook integration between the scraper module and database, enabling real-time data flow decreasing latency over 10 times.
- Built a robust REST API to facilitate efficient data transfer, increasing system responsiveness and data accuracy.

Projects

URL Shortener Service | Java, Docker, Redis, Cassandra, Nginx

- Developed a scalable URL Shortener similar to bit.ly, storing user-submitted key-value pairs.
- Collaborated on a multi-host system setup, integrating proxy and database servers with monitoring.
- Optimized performance using parallelization and caching.
- Applied CAP theorem to balance consistency, availability, and fault tolerance.
- Implemented consistent hashing for disaster-resilient data replication.
- Re-engineered the system with Docker, Redis, Cassandra, Nginx using Docker Swarm orchestration.

Personal Website | React, Next.js

- Built a personal website with **React and Next.js**, leveraging server-side rendering to reduce load times and increase **employer engagement**.
- Designed smooth transitions and animations with **JS and CSS libraries** like React Smooth-Scroll for an interactive user experience.
- Implemented a **gallery page** showcasing my film photography, using techniques like progressive image loading, lazy loading on scroll, and pop-up views for individual photos to optimize performance and visual appeal.

Exchange Guardian (PyJaC 2022 Winner) | UiPath Studio, Forms

- Developed a webscraping tool utilizing UiPath.
- Created a dashboard to fetch data from major Canadian bank APIs to get live currency exchange data
- Integrated UiPath Forms to display best USD-CAD exchange rates among major Canadian banks in an intuitive manner to allow the users to sell/buy their currencies with the best price.

Relevant Coursework

- Distributed Systems
- Scalable Computing
- Algorithm Design
- Data Struct & Analysis
- OOP
- Operating Systems
- Database Design
- Cybersecurity
- Embedded Programming
- Parallel Programming

Technical Skills

Languages: Python, Java, JavaScript, React, Kotlin, C/C++, Mars Assembly, Bash Shell

Developer Tools: Android Studio, Linux, Bash, UiPath, JetBrains, Postman, Microsoft Docs and Excel

Technologies/Frameworks: Cassandra, Redis, Nginx, Next.js, Neo4J, Docker, Jenkins, Github Actions, Prometheus, Log4j, Apache Spark, Agile, Jira, Git, Github, Gitlab, Mockito, Spring Boot, Spring, Tailwind