Shakir Abdullayev

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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

Relevant Coursework

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

Technical Skills

Languages: Python, Java, JavaScript, React, Kotlin, C/C++, Mars Assembly, Bash Shell
Developer Tools: Android Studio, Linux, Bash, UiPath, JetBrains, Postman
Technologies/Frameworks: Cassandra, Redis, Nginx, Next.js, Neo4J, Docker, Jenkins, Github Actions, Prometheus, Log4j, Apache Spark

Experience

Veeva Systems | *Software Engineer*   **May 2023 - May 2024**

- Enhanced system reliability by diagnosing and resolving critical **multi-threading** issues affecting node availability.
- Optimized high-demand infrastructure handling 20M+ monthly requests with **AWS, Kubernetes, and Prometheus** to improve efficiency.
- Led a comprehensive **cybersecurity audit** to analyze dependencies and address potential vulnerabilities.
- Upgraded **AWS instances** across regional clusters, maintaining compatibility and continuous service availability.

TD Bank Canada | *DevOps Software Engineer*   **May 2022 - September 2022**

- Enhanced the **KPI project** in 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.
- 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*   **September-December 2024**

- 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*   **January 2022**

- 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*   **January-Present 2022**

- Developed an **automation program** utilizing **UiPath**.
- Utilized the **web-scraping** package of UiPath to fetch data from the websites of **major Canadian banks**.
- Integrated UiPath **Forms** to display best USD-CAD exchange rates among major Canadian banks in an intuitive manner.