Taras Zherebetskyy

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Summary

- Master's graduate at Fordham University with concentrations in Software Engineering and Artificial Intelligence.
- NCAA Athlete honored with Academic All-Conference recognition for athletic and academic achievements.
- Obtained Apache Kafka professional certification and created a Kafka project to scale data pipeline horizontally.
- Developed a betting-oriented social network served by microservices architecture and assessed reliability with performance testing.

Education

FORDHAM UNIVERSITY New York, NY
MS in Computer Science | GPA 3.85 August 2022 – August 2023
Concentration courses in Software Engineering and Artificial Intelligence.

- Relevant Coursework: Advanced Computer Algorithms, Distributed Systems, Cloud Computing, Machine Learning, Software Engineering, Databases, Internet & Web Development, Artificial Intelligence.
- Scholarship: Full Varsity Swimming Scholarship.
- Awards: Earned Summa Cum Laude and Academic All-Conference honors while swimming 20 hours per week.
- NCAA Division 1 Achievements: Won 400 freestyle relay and 400 Medley relay at Atlantic 10 Championships, 2nd in individual 100 Free with a school record, and 3rd all-time fastest swim.

MCKENDREE UNIVERSITY Lebanon, IL
BS in Computer Science August 2018 – May 2022

- Scholarship: 90% Varsity Swimming and Academic Scholarship.
- Awards: Dean's list from 2018 to 2021.

Certificates

APACHE KAFKA September 2023
Udemy Electronic Certificate

- In-depth knowledge of Apache Kafka Ecosystem, Architecture, Core Concepts, and Operations.
- Mastery of key Kafka concepts, including Topics, Partitions, Brokers, Producers, and Consumers.
- Practical application and use cases through creating a real-world Twitter Producer and OpenSearch Consumer.
- Familiarity with extended Kafka APIs, including Kafka Connect and Kafka Streams, along with insights into their use in Big Data architecture.

Projects

APACHE KAFKA – WIKIMEDIA Git Repository
Technologies Utilized: *Java, Docker, Kafka, OpenSearch, Conduktor, Zookeeper*

- Configured a resilient system with **3 Kafka** brokers to distribute workloads, ensuring high availability and fault tolerance.
- Implemented Apache Zookeeper for efficient coordination and management of Kafka brokers, enhancing **system stability** and **fault recovery**.
- Integrated Conduktor into the architecture, offering visualization and control capabilities for Apache Kafka, simplifying monitoring and topic management.
- Created pipeline for storing data from topic in **OpenSearch**, enabling efficient data storage, retrieval, and analysis.
- Implemented **producer** and **idempotent consumers** processes to safeguard against duplicate data entries, ensuring data integrity within the database.

- Integrated Kafka Schema Registry for efficient data **schema management**, maintaining **data consistency** and compatibility between producers and consumers
- Simplified the deployment process by containerizing the system with **Docker Compose**, resulting in the seamless deployment of a three-node Kafka cluster and Zookeeper coordinator.

AMICABET Project Demo | Git Repository | IEEE Paper

Technologies Utilized: *Python, Flask, Bootstrap, Docker, Kubernetes, SQLite3, Google Cloud*

- Engineered a betting-oriented **social network** platform that enables users to engage in diverse gambling activities between friends.
- Optimized it with **microservices** architecture and served with RESTful APIs.
- Deployed on Google Cloud Platform with **Kubernetes Engine Cluster** & **Docker** to scale on users' needs.
- Conducted performance testing on APIs with 10 threads, employing a ramp-up period of 60 seconds and a total duration of 5 minutes to assess system performance under sustained load.

SERVICENOW API PERFORMANCE TESTING Git Repository | Performance Testing Report

Technologies Utilized: *Python, JMeter*

- Experimented on ServiceNow APIs to assess performance and responsiveness under different levels of load
- Utilized JMeter to test REST ServiceNow APIs, evaluating authentication, data retrieval, and system responsiveness.
- Conducted the testing with 20 threads per API, employing a ramp-up period of 240 seconds and a total duration of 15 minutes to assess system performance under sustained load.
- Evaluated sys_user API performance with varying parameters to observe its response in different scenarios.
- Conducted performance analysis focusing on retrieving high volumes of data from incident API.
- Created GitHub repository with shell script to automate the entire performance testing process, from test scenario setup to result analysis and reporting.

Experience

JUSTICE INTERNATIONAL Mountain View, CA

Software Developer Intern (part-time) May 2021 – December 2021

- Developed a dynamic and responsive social network web application using Vue.js
- Unit Testing inputs to given functions, classes, and components to ensure expected outputs are produced.
- Managed user interface design with Tailwind CSS to ensure a visually appealing user experience.
- Implemented GraphQL API to retrieve and update a web application's customer information efficiently.
- Played a crucial role in requirement analysis, design, and implementation stages following Agile SDLC methodologies.

CODE NINJAS Fremont, CA

Computer Coding Instructor (part-time) June 2021 – August 2021

- Proficient Coding Instructor specializing in JavaScript, Web Development, Python, PyGame, and programming.
- Led instructional sessions for approximately 20 students, prioritizing topic comprehension.
- Facilitated interactive coding sessions promoting an environment conducive to active learning and problem-solving.
- Designed and fulfilled curriculum modules tailored to various skill levels, accommodating novice and advanced learners.
- Conducted regular assessments and provided constructive feedback to students, tracking their progress, and facilitating continuous improvement.

Skills

Computer Languages: Java | C++ | C# | Python | PHP | JavaScript | SQL | bash | XAML | HTML | CSS
Frameworks: Flask | Vue.js | Node.js | React.js | TailwindCSS | Bootstrap | WPF | Git
Libraries & Modules: scikit-learn | NumPy | XMLRPC | Sockets | Pandas | requests | threading | SQLite | matplotlib
Computing & Virtualization: Google Cloud Platform | Kubernetes | Docker | Kafka