**Utku Aysev**

Fairfield, IA • utkuaysev@gmail.com • (641) 233-9886• [linkedin.com/in/utkuaysev](http://linkedin.com/in/utkuaysev)

**PROFESSIONAL EXPERIENCE**

**HEPSIBURADA Istanbul, Turkey**

**Data & Software Engineer 03/2022-08/2023**

* Engineered a microservices architecture using GCP, Java, Spring Boot, PostgreSQL, Kafka, Druid, and Superset, streamlining real-time user click-stream data delivery and achieving a 30% improvement in data processing efficiency.
* Supplied live data to critical systems like recommendations engines and dashboards, collaborating with cross-functional teams for strategic decision-making, and achieving over 99% uptime throughout the year.
* Optimized the GitLab CI/CD for Google Cloud Kubernetes deployment, leveraging Docker and Maven for containerization and build management respectively, resulting in a 30% acceleration in release cycles and increased deployment reliability.
* Managed and scaled data pipelines on the cloud processing over 100TB of data daily with Spring Boot, Kafka, Big Query, Druid and Superset ensuring real-time data integrity and high data quality standards.
* Initiated error reduction strategies by deploying Python cron jobs on Google Kubernetes Engine, utilized BigQuery for data analysis, integrated Slack alerts for business analysts, resulting in a 40% reduction in data inconsistencies.
* Created an internal web app with Spring Boot, Hibernate, and PostgreSQL, integrated RESTful services and JUnit tests into existing microservices, reducing data format update times from days to 30 minutes.
* Handled high traffic loads, managing over 35,000 requests per second during peak times by implementing rigorous testing, auto-scaling, and optimizing Google Cloud VMs for seamless data processing.
* Utilized Grafana and Prometheus for real-time system performance monitoring, processing statistics for up to 70,000 users per second, ensuring optimal system health and performance.

**SEBIT Ankara, Turkey**

**Software Engineer 02/2021-03/2022**

* Enhanced nationwide educational technology solutions using microservices with Java, Spring, Docker, and Maven, alongside databases like PostgreSQL, Kafka, Cassandra, Elasticsearch, Redis, and Memcached.
* Performed debugging and monitoring of Java Spring microservices, Redis, Memcached, and Kafka components, leveraging tools like Maven and Docker for efficient development and deployment.
* Resolved user accessibility issues by implementing dynamic cluster binding in Elasticsearch.
* Executed SQL queries on PostgreSQL and Cassandra for a dataset of over 13 million user records, delivering valuable analytics and insights to government stakeholders.
* Designed a notification infrastructure using Java, Spring, and PostgreSQL, automating targeted notifications for users in custom groups, reducing manual notification efforts by 40%.

**STM Ankara, Turkey**

**Software Engineer Intern 09/2019-01/2020**

* Launched an internal web portal for cyber intelligence data using Python, Flask, MongoDB.
* Implemented a graph database using Neo4j to catalog cybersecurity vulnerabilities and entities, enhancing risk assessment through similarity algorithms.
* Integrated a Named Entity Recognition model using Spacy into existing systems, efficiently processing pre-tagged cyber intelligence data from articles to extract key insights.

**COMODO Ankara, Turkey**

**Software Engineer Intern 01/2018-05/2018**

* Established an internal web app using Java, Spring Boot, PostgreSQL and Hibernate to automate employee performance evaluations, simplifying average score calculations and managing complex relationships, aiming to reduce HR workload from weeks to days.
* Collaborated with HR through weekly meetings to refine and optimize the automation tool, addressing specific HR process requirements.

**EDUCATION**

**MAHARISHI INTERNATIONAL UNIVERSITY Fairfield, IA**

**Master of Science in Computer Science**

(In progress via distance education; expected completion 04/2026)

[**Alumni Portal**](https://github.com/utkuaysev/AlumniPortal) **2023**

* Developed an Alumni Portal with microservices for address and education management using Spring Boot, Spring Cloud, Spring Security, Spring Gateway, Hibernate, and Eureka Service Discovery to enhance alumni communication and streamline data management.

**[Rental Car Application 2023](https://github.com/utkuaysev/Rental-Car-Application)**

* Built a rental car application website with car management functionalities using Node.js, Express, JavaScript for seamless user interaction.

**TOBB UNIVERSITY OF ECONOMICS AND TECHNOLOGY Ankara, Turkey**

**Bachelor of Engineering, Major in Computer Science 2015-2020**

**PROJECTS**

[**Real Estate Agency Admin Tool**](https://github.com/utkuaysev/emlak) **2022**

* Developed a real estate contract tracking system using Python, Flask, SQLite reducing agent workload by over 30%.

**SKILLS**

* Java(Spring Boot, Hibernate, Junit), Python(Flask, Django), Javascript(NodeJs, Express)
* Cloud Computing, Google Cloud Platform(GCP), BigQuery, GKE, AWS, RDS, S3, DynamoDB
* SQL, NoSQL, RDBMS, Database Design, PostgreSQL, MySQL, MongoDB, Cassandra, ElasticSearch, Redis, Memcached
* Messaging Systems, Kafka, RabbitMq
* RESTFUL Web Services, OOP, Design Patterns, Singleton, Spring MVC, Visitor Design Pattern, Software Design, API, Data Structures, Algorithms
* Prometheus, Grafana
* Containerization, Docker, Maven, Gitlab CI/CD, Kubernetes, Git
* Spring Cloud, Spring Security, Spring Gateway, API Gateway
* Microservices Architecture, Data Pipeline Management, Real-time Data Processing, Large-scale Distributed Microservices, Highly-Available Systems, N-Tier Systems
* Problem Solving, Technical Communication, Continuous Improvement, Documentation, Software Development Life Cycle, Troubleshooting, Debugging, Critical Thinking, Self-Motivated, Attention to Detail
* Code Review, Agile, SCRUM, Kanban
* HTML, JQuery, AJAX, CSS
* Eclipse

**ADDITIONAL INFORMATION**

* **Career Note**: Completed on-campus studies and currently taking distance education courses to complete a Master’s Degree in Computer Science (Available for full-time, W-2 employment).