**Utku Aysev**

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**TECHNICAL SKILLS**

**PROFESSIONAL EXPERIENCE**

**HEPSIBURADA Istanbul, Turkey**

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

* Engineered a microservices solution 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.
* Continuously supplied live data to systems such as recommendations collaborated with other teams, and offered dashboard insights that guided strategic decision-making across the company, achieving over 99% uptime throughout the year.
* Optimized the GitLab CI/CD integration during Google Cloud Kubernetes Engine deployment, leveraging Docker and Maven for containerization and build management respectively, achieving a 30% acceleration in release cycles and enhancing deployment reliability.
* Maintained scalable 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.
* Employed BigQuery, initiated a Python cron job deployed on Google Kubernetes Engine, and integrated a Slack alert system specifically serviced to notify business analysts, achieving a 40% reduction in data errors.
* Created an internal web-based tool with Spring Boot, PostgreSQL and Hibernate, integrating REST services and JUnit tests, reducing data format update time from 3-5 days to thirty minutes, enhancing efficiency for business analysts.
* Managed over 35,000 requests per second on peak Black Friday by implementing a rigorous testing process, auto-scaling configuration, fine-tuning Google Cloud VM machines, and ensuring seamless data streaming.
* Utilized Grafana and Prometheus to monitor system performance, processing statistics for up to 70,000 users per second and enhancing real-time data accuracy.

**SEBIT Ankara, Turkey**

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

* Improved educational technology solutions for nationwide EdTech products, including calendar, messaging, notifications systems, and feed for users, using microservices with Java, Spring, Docker, and Maven, with 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 the issue of users being unable to access last year's messages by implementing dynamic cluster binding in Elasticsearch.
* Conducted comprehensive SQL queries within PostgreSQL and Cassandra on a dataset from over 13 million user records to analyze and report on the learning experiences of teachers and students, delivering valuable insights to government stakeholders.
* Planned a notification infrastructure using Java, Spring, and PostgreSQL to automate targeted notifications for users within customized groups, reducing business analyst time spent on manual notifications by 40%.

**STM Ankara, Turkey**

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

* Started an internal web portal for cyber intelligence data using Python, Flask, MongoDB.
* Designed a graph database with thousands of cybersecurity vulnerabilities and impacted entities, using similarity algorithms for advanced risk assessment by utilizing Neo4j.
* Built a Named Entity Recognition model using Spacy on pre-tagged cyber intelligence data with hundreds of cyber intelligence-related articles, meeting project objectives and deadlines with efficient data parsing.

**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.
* Weekly meetings were conducted with HR to develop an automation tool, addressing the complexities of HR processes.

**EDUCATION**

**MAHARISHI INTERNATIONAL UNIVERSITY Fairfield, IA**

***Master of Science in Computer Science***

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

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

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

**PROJECTS**

**REAL ESTATE AGENCY ADMIN TOOL 2022**

Developed a real estate contract tracking system using Python, Flask, PostgreSQL, HTML, JavaScript, JQuery, and Bootstrap, reducing agent workload by over 30%.

**ADDITIONAL INFORMATION**

* **Certifications**: Specialization in Big Data Technologies
* **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).