Ramiz Dundar

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SKILLS

Languages: Java, Python, Golang, Bash, C, C++, SQL
Tools: Git, Docker, Swarm, Kubernetes, gRPC, AWS, Jira, Jenkins, Linux, PyTorch, Copilot, ChatGPT
Expertise: Distributed Systems, Scalability, Stream Processing, In Memory, Low Latency, Computer Vision, NLP

EXPERIENCE

Brown University **Dec 2023 – Present**
Research Assistant (Paid) | Python, Go Providence, RI

- Achieved a 20x average speed improvement in bash scripts, measured in a 30-node cluster across 77 scripts, by leading a team of 4 in designing and developing a fault-tolerant distributed system that parallelizes bash scripts.

Hazelcast **Dec 2020 – Jul 2023**
Software Engineer II | Java Remote

- Promoted as the youngest member of the core team, with a ten-year gap to the next youngest member, due to my contributions in integrating the stream processing engine into the main product.
- Improved the throughput of a distributed in-memory key-value store by up to 40% and benchmarked using our internal simulator with Terraform on AWS, by rewriting code to implement a thread-per-core architecture.
- Accelerated replication speed by 3x across two AWS regions by parallelizing serial replication logic.
- Led teams to secure 1st and 3rd places in Hazelcast's hackathons in 2022 and 2023, earning a total of $2400 in prizes by developing a Jenkins test failure analysis framework and integrating the QUIC transport layer protocol.

Pragmacraft **Jul 2019 – Dec 2019**
Machine Learning Engineer | Python, PyTorch Istanbul, Turkey

- Developed and presented a browser extension that generates concise web page summaries, similar to Google's featured snippets, at Turkey's second-largest bank's research center, using a combination of extractive and declarative summarization techniques with Google's Sentence Encoder.

EDUCATION

Brown University | MS in Computer Science | 4.0 GPA **Expected May 2025**
Bogazici University | BS in Computer Engineering | 3.8 GPA | Ranked 4th out of 89 **Jun 2021**

PROJECTS

Nuke | Python github.com/brown-nuke/nuke-core
Developed a privacy compliance framework to help application developers adhere to privacy regulations, featuring an example social media platform built with Redis and MongoDB to demonstrate the use of Nuke APIs.

Medical Transformers | Python, PyTorch github.com/ramizdundar/medical-transformers
Conducted research on classifying X-ray images across five diseases using Vision Transformers (ViT) and proposed a novel strided approach that increased the mean AUC from 0.858 to 0.880.

Multris | Python github.com/ramizdundar/multris
Developed a Tetris game enabling players on different computers to share the same board and play in real time.