Ata Oguz

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Education

University of Southern California — **Los Angeles, CA**
MS, Computer Science — *August 2026 – May 2028 (Expected)*

Bilkent University — **Ankara, Turkey**
BS, Computer Science | Magna Cum Laude, 3.58/4.00 CGPA — *September 2022 – June 2026*

Experience

The Starware — February 2026 – August 2026
Part-time Software Engineer

- Developed full-stack features for Atlassian Marketplace apps, writing a TypeScript/Node.js backend and React frontend on Forge, Atlassian's serverless platform built on AWS Lambda and DynamoDB.
- Improved API rate-limit handling ahead of Atlassian's 2026 points-based limits, refactoring request logic to read platform rate-limit headers and throttle proactively before quota exhaustion rather than reacting to HTTP 429s.

Bilkent University, AlkanLab — September 2025 – August 2026
Undergraduate Research Assistant

- Built automated structural variant benchmarking pipelines with Snakemake, Conda, and Bash on a Slurm HPC cluster to align and process whole-genome assemblies.
- Benchmarked five SV callers against GIAB truth sets, comparing recall, precision, and compute cost across multiple reference assemblies.

PoolText — June 2025 – August 2025
Machine Learning Intern

- Fine-tuned local LLMs to replace the GPT API for academic paper editing, reaching 91% of GPT quality at 43% of the cost across 1,000+ edits scored against a gold-standard key.
- Engineered a concurrent processing pipeline on GCP Compute Engine that split long papers into independently editable chunks, cutting inference time by 86% and letting local models handle full-length manuscripts.

The Starware — July 2024 – August 2024
Software Engineering Intern

- Developed a RAG-based document Q&A web app (ask2file.com) in a team of 3, using React, Node.js, and MongoDB to build the full stack and user account functionality.
- Built vector search over document embeddings using LangChain and Weaviate, tuning chunking and retrieval parameters for query relevance.

Projects

Agreemind | *React, React Native, Python, PyTorch, spaCy, PostgreSQL* — 2026

- Built an ML-powered contract review app for web, iOS, and Android that automatically detects contracts and terms of service, flagging risky clauses, suggesting rewrites, and extracting renewal and termination deadlines.
- Trained clause classifiers and risk scoring models across bank, NDA, TOS, and general contract domains, and built a RAG pipeline over pgvector for questions spanning multiple documents.

Reconstruction-Based Unsupervised Anomaly Detection | *PyTorch, DINOv2* — 2025

- Built an unsupervised industrial defect detection pipeline around a frozen DINOv2 encoder, a noisy bottleneck, and a transformer decoder, trained exclusively on defect-free images.
- Extended the Dinomaly2 framework with a 10-minute feedback fine-tuning stage, increasing image-level AUROC from 0.73 to 0.93 and Average Precision from 0.58 to 0.84 on a factory test split.

Technical Skills

Programming & Web: Python, C++, Java, JS/TS, SQL (Postgres), React.js, React Native, Node.js, HTML/CSS
ML & AI: PyTorch, scikit-learn, NumPy, Hugging Face, spaCy, LangChain, Weaviate, RAG
Tools & Infra: Git, Docker, Linux/Bash, REST APIs, Slurm (HPC), Conda, GCP, MongoDB, Atlassian Forge
Relevant Coursework: Algorithms, Database Systems, Machine Learning, Computer Vision, Data Privacy