

SKILLS	Python (8+ years), Java (4 years), Ruby, C / PostgreSQL / Redis / Docker, Kubernetes / Azure / PyTorch	
EXPERIENCE	<div><div>Microsoft, Istanbul, Turkey (2.5+ years)</div><div>May 2022 - Present</div><div>Software Engineer at Azure Cosmos DB for PostgreSQL & MongoDB vCore Team</div><div><div>- Tech stack: Ruby / Sinatra / Sidekiq / Redis / Postgres / Docker / Kubernetes / Azure DevOps</div><div>- Backend development for the large-scale distributed cloud services of Citus/Postgres & Mongo vCore</div><div>- Battle-tested by performing live migrations, handling outages, conducting RCAs, and deploying hotfixes</div><div>- Won the Azure Databases organization's (1700+ people) quarterly Azure Databases Beacon Award</div><div>- Led the availability zone outage resiliency initiative for our control plane hosted on Azure</div><div>- Reduced cluster provisioning duration from 5 mins to 5 secs on avg for our most popular SKUs</div><div>- Automated control plane k8s cluster updates and fleet maintenance for fast security vuln management</div><div>- Completed end-to-end development of cert preprovisioning workflow for OneCert outage resiliency</div><div>- Co-created our service's unified security/maintenance status dashboards via Azure Data Explorer</div><div>- Participating in on-call rotations to promptly address incidents and assist customers</div></div></div> <div><div>Max Planck Institute/Uni of Tübingen, Tübingen, Germany (1 year)</div><div>Jan 2021 - Dec 2021</div><div>Research Scientist at Explainable Machine Learning Group</div><div><div>- The findings of my research on robust & efficient computer vision are published at CVPRW'22</div></div></div> <div><div>Siemens, Ankara, Turkey (≈ 4 years)</div><div>Jan 2017 - Nov 2020</div><div>Software Engineer at Smart Infrastructure Department</div><div><div>- Tech stack: Python / Keras / MariaDB, Java / JavaFX / MSAccess</div><div>- Backend development and work on AI/ML for anomaly detection/event classification</div><div>- Initiated deep learning adoption in PQA for predictive maintenance (+17% accuracy)</div><div>- Improved real-time data processing by replacing server-to-client polling with client initiated connections</div><div>- 254x avg. speed-up on I/O bound operations via indexing and refactoring the database queries</div><div>- Designed and developed a new GUI for the transition from Swing to JavaFX</div></div></div>	
EDUCATION	<div><div>Middle East Technical University, Ankara, Turkey</div><div>Sep 2016 - Dec 2018</div><div>M.Sc. in Computer Engineering</div></div> <div><div>Middle East Technical University, Ankara, Turkey</div><div>Sep 2011 - June 2016</div><div>B.Sc. in Computer Engineering</div></div>	
SELECTED OPEN-SOURCE SOFTWARE	<div><div>MicroExpNet 🏆 139 ★ Main Contributor, AI/ML, Python, Tensorflow, 2017</div><div>- Codes of our conference paper on a very fast facial expression recognition model</div></div> <div><div>ACVC 🏆 29 ★ Main Contributor, AI/ML, Python, PyTorch, Matplotlib, 2021</div><div>- Codes of our CVPRW'22 paper on single-source domain generalization in computer vision</div></div> <div><div>Treelogy 🏆 3 ★ Contributor, Backend Development, AI/ML, Java, Python, Caffe, 2016</div><div>- Codes of our award-winning (\$1,000) Treelogy mobile app (peak 27,000+ users) and its tech report</div></div> <div><div>psykedelic 🏆 2 ★ Main Contributor, AI/ML, Python, Keras, Matplotlib, 2020</div><div>- Codes of our tech report on convolutional neural net pruning via eigenvalue-based heuristics</div></div> <div><div>spike_pstrsv 🏆 2 ★ Main Contributor, Parallel Computing, C, OpenMP, Python, Matplotlib, 2019</div><div>- Codes of our journal paper that introduced a parallel solver 2.47× faster than Intel MKL 2018's</div></div>	