

SKILLS	Python (9+ 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 &amp; MongoDB vCore Team</div><div><ul style="list-style-type: none"><li>- Tech stack: Ruby / Sinatra / Sidekiq / Redis / Postgres / Docker / Kubernetes / Azure DevOps</li><li>- <b>Backend development</b> for the large-scale distributed cloud services of Citus/Postgres &amp; Mongo vCore</li><li>- Battle-tested by performing live migrations, handling outages, conducting RCAs, and deploying hotfixes</li><li>- Won the Azure Databases organization's (1700+ people) quarterly <b>Azure Databases Beacon Award</b></li><li>- Led the <b>availability zone outage resiliency</b> initiative for our control plane hosted on Azure</li><li>- Reduced cluster provisioning duration <b>from 5 mins to 5 secs</b> on avg for our most popular SKUs</li><li>- Automated control plane k8s cluster updates and fleet maintenance for fast security vuln management</li><li>- Completed end-to-end development of cert preprovisioning workflow for <b>OneCert outage resiliency</b></li><li>- Co-created our service's unified security/migration/maintenance status dashboards via Azure Data Explorer</li><li>- Participating in on-call rotations to promptly address incidents and assist customers</li></ul></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><ul style="list-style-type: none"><li>- The findings of my research on robust &amp; efficient computer vision are <b>published at CVPRW'22</b></li></ul></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><ul style="list-style-type: none"><li>- Tech stack: Python / Keras / MariaDB, Java / JavaFX / MSAccess</li><li>- <b>Backend development and work on AI/ML</b> for anomaly detection/event classification</li><li>- <b>Initiated deep learning adoption</b> in PQA for predictive maintenance (+17% accuracy)</li><li>- Improved real-time data processing by replacing server-to-client polling with client initiated connections</li><li>- 254x avg. speed-up on I/O bound operations via indexing and refactoring the database queries</li><li>- Designed and developed a new GUI for the transition from Swing to JavaFX</li></ul></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><ul style="list-style-type: none"><li>- Codes of our conference paper on a very fast facial expression recognition model</li></ul></div></div> <div><div>ACVC 📄 29 ★ Main Contributor, AI/ML, Python, PyTorch, Matplotlib, 2021</div><div><ul style="list-style-type: none"><li>- Codes of our CVPRW'22 paper on single-source domain generalization in computer vision</li></ul></div></div> <div><div>Treelogy 📄 3 ★ Contributor, Backend Development, AI/ML, Java, Python, Caffe, 2016</div><div><ul style="list-style-type: none"><li>- Codes of our award-winning (\$1,000) Treelogy mobile app (peak 27,000+ users) and its tech report</li></ul></div></div> <div><div>psykedelic 📄 2 ★ Main Contributor, AI/ML, Python, Keras, Matplotlib, 2020</div><div><ul style="list-style-type: none"><li>- Codes of our tech report on convolutional neural net pruning via eigenvalue-based heuristics</li></ul></div></div> <div><div>spike_pstrsv 📄 2 ★ Main Contributor, Parallel Computing, C, OpenMP, Python, Matplotlib, 2019</div><div><ul style="list-style-type: none"><li>- Codes of our journal paper that introduced a parallel solver <b>2.47×</b> faster than Intel MKL 2018's</li></ul></div></div>	