

# Mert Toslali

🏠 Boston, MA

✉ toslali@bu.edu

🌐 mtoslalibu

Computer engineering PhD student at Boston University, focusing on monitoring, performance analytics, online experimentation, distributed tracing in the cloud.

## RESEARCH EXPERIENCE

**PeacLab, Boston University, Research Assistant** *Sept 2018 - Present*

- Diagnosing performance problems by leveraging statistical and machine learning in cloud applications

**IBM T.J. Watson, Research Intern** *June 2020 - Sept 2020*

- Tritium: Automated analytics and ML for fault localization using cross-layer telemetry in cloud

**IBM T.J. Watson, Research Intern** *May 2019 - Aug 2019*

- Jackpot: Multi-armed bandit driven online experimentation of cloud microservices

**Bilkent University, Research Assistant** *Dec 2014 - July 2015*

- Energy-aware dynamic connection provisioning on data centers

## PUBLICATIONS

- **M. Toslali**, S. Parthasarathy, F. Oliveira, A. Coskun, "JACKPOT: Online experimentation of Cloud Microservices", in USENIX Workshop on Hot Topics in Cloud Computing (HotCloud), 2020.
- E. Ates, L. Sturmman, **M. Toslali**, O. Krieger, R. Megginson, A.K. Coskun, R.R. Sambasivan, "An automated, cross-layer instrumentation framework for diagnosing performance problems in distributed applications", in Symposium on Cloud Computing (SoCC), 2019

## WORK EXPERIENCE

**CyanGate, Full Stack Software Developer** *Jan 2018 - July 2018*

- SDrive: Developed a file distribution platform on Salesforce integrating with Google Drive, Box, AWS

**OpsGenie-Atlassian, Software Engineer** *July 2017 - Dec 2017*

- Thundra: Contributed to the development of a distributed log/stat/audit data collector for cloud apps
- Custom Query Language: Developed custom query syntax and grammar using Antlr
- Cache Management: RD of multiple caching systems for coherency and time comparison on AWS
- API Gateway & Elastic Search: Developed an API integration for backend cloud services with ES

**Turkcell, Software R&D Engineer** *July 2016 - July 2017*

- Messaging app (BiP) Rest API services: Developed BiP Translate, BiP Game Ground, BiP Pharmacy, BiP Weather, BiP Retail Hunt, BiP Face recognition services

**Seneka, Software Engineer** *Sept 2015 - July 2016*

- Contributed to the development of Electronic Document Management System for Custom and Trade Ministry

**Turkcell, Software Engineer Intern** *July 2015 - Sept 2016*

- Contributed in research for energy aware data center engineering

**Gate Electronic, Software Engineer Intern** *July 2014 - Sept 2014*

- Contributed to the development of file management and encryption system

**Bilkent University, Teaching Assistant** *Sept 2012 - July 2014*

- TA in Computer Science 101, Physics 101, Physics 102 courses
- Volunteer Elementary School Teacher (Mathematics and Science courses)

## EDUCATION

**Boston University** *Sept 2018 - Present*

- Ph.D. Computer Engineering, **GPA: 4.0**

**Bilkent University** *Sept 2011 - June 2016*

- B.S. Electrical and Electronics Engineering, **GPA: 3.63**
- Comprehensive (100%) Scholarship

**University of Nebraska Lincoln** *Aug 2014 - Jan 2015*

- Exchange Student, Electrical and Computer Engineering

## KEY SKILLS

Python, Java, C#, C++, C, .Net, Kubernetes, Istio, Amazon Web Services, Elastic Search, SQL, JavaScript, Thymeleaf, Hibernate, Mongo DB, Oracle DB, Spring, Spring boot