Oğuz Demir

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Education

2017 – 2019 (Expected) — **Cockrell School of Engineering**, *University of Texas at Austin.*
M.S. in the Department of Electrical and Computer Engineering, Software Engineering and Systems track.

2012 – 2017 — **Faculty of Engineering**, *Bilkent University, Ankara.*
B.S. in the Department of Computer Engineering
- CGPA: 3.82/4.00
- Ranked 90th in Nationwide University Entrance Exam among 1.8 million students.

Experiences

July-August 2015 — **University of Texas at Austin, TX. Aerospace Engineering**, *Summer Intern.*
- Worked for 'Autonomous Guidance and Control Laboratory' under supervision of Assoc. Prof. Behçet Açıkmeşe. Improved the speed of simulations by developing a simulation environment.

September-November 2016 — **Hazelcast Inc., Istanbul**, *Part-Time Software Engineer.*
- Worked in Clients team of Hazelcast. Generated API documentation for Python client for release. Improved stability of the product by working on reported bugs and issues.

June-August 2016 — **Hazelcast Inc., Istanbul**, *Summer Intern.*
- Worked in Clients team of Hazelcast. Enhanced the attractiveness of the product by improving the code samples and solving customer reported bugs and issues. Increased the code coverage of NodeJS client by 5%. Improved the understandability of the project by preparing tutorial about adding a new service to the Hazelcast.

June 2015 — **Zirve Information Systems, Ankara**, *Summer Intern.*
- Enhanced the welcome page of company's main project by developing welcome page applications, smart calendar and todo list.

Projects

May 2017 — **CrypDist, Senior Project, Bilkent University**.
- CrypDist is a blockchain based encrypted content distribution network. The project aims to avoid data access blocks and reduce the time needed to deliver big data.

May 2017 — **Distributed Hash Table, Bilkent University**.
- Implemented a scalable and fault-tolerant distributed hash table, structured with Chord algorithm.

December 2016 — **Github Community Detection, Bilkent University**.
- The tool is created as a course project for CS 425 - Algorithms for WebScale Data with one more colleague. GitHub user data is collected in a breadth first manner for a specific user and Walktrap algorithm is applied for community detection. We visualized 10k people in clusters according to their common features.

September 2016 - February 2017 — **Section Checker, Bilkent University**.
- Developed a program which checks available quotas periodically for desired course section and warns the user in case of availability. A Telegram Bot in Telegram Messaging App is used to notify users. It was used by more than 1000 Bilkent University students in course selection period.

August 2015 — **Agent Simulator, UT Austin**.
- Developed a simulation environment for a swarm of agents moving in a velocity field.This software can simulate a large number of agents and determine agent densities/collisions in a very short time.

August 2016 — **Stack Service, Hazelcast**.
- Implemented concurrent and distributed stack data structure for Hazelcast Software to provide users with a tutorial about adding a new service to Hazelcast Software.

Honors & Scholarships

2013 - 2017 — **High Honor roll**, *Bilkent University, Ankara.*
2012 - 2017 — **Comprehensive Scholarship**, *Bilkent University, Ankara.*
2012 - 2017 — **Turkish Prime Ministry Scholarship**.

Skills

Programming — Java, C/C++, Python, SQL, VERILOG, MIPS Assembly, JavaScript, AngularJS
Languages — Turkish (Native), English (Professional Proficiency)

Memberships

2014 – 2015 — **International IEEE Member**, *Bilkent University, Ankara.*
- Bilkent IEEE Student Branch Graphic Design Coordinator