

Esref Ozturk

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- EMPLOYMENT** **Senior Software Engineer** (February 2018 - Present)
Toptal, Remote
Toptal is an exclusive network of the top freelance software developers.
- Worked with clients from all over the world. **SF, NY, London, Spain**
 - Developed scalable web applications. **Django, Node.js, React, Vue.js**
 - Developed robust mobile applications. **Android, iOS, Swift, Objective-C**
 - Worked with AWS technologies. **EC2, S3, Lambda, Beanstalk, Serverless**
- Co-Founder** (April 2017 - January 2020)
Drive Buddy Inc., METU Technopolis
Drive Buddy is an AI-powered mobile telematics solution.
- Managed the team of 2-5.
 - Created a machine-learning algorithm to detect car accidents. **LSTM, Keras**
- Software Engineer** (June 2016 - June 2017)
Udemy Inc., METU Technopolis
Udemy is an online learning platform.
- R&D on search functionality of the website. **Django, Elasticsearch, Angular**
 - Migrated Elasticsearch from 1.5 to 2x. **Ansible**
- Software Engineer** (February 2016 - May 2016)
STM Defence Technologies & Engineering Inc., Ankara
STM is a company focused on Defence Technologies.
- Developed a system to automated hardening. **Hardening, Python**
- Software Developer** (April 2014 - January 2016)
Cyber Warfare Lab, Labris Networks, METU Technopolis
Labris Networks specializes in Unified Threat Management.
- R&D on Labris Unified Threat Management machine. **C++, Bash, UTM**
- Contracted Software Developer** (June 2014 - September 2014)
TUBITAK(The Scientific and Technological Research Council of Turkey)
TUBITAK is national science, technology and innovation agency of Turkey.
- Developed a Debian kernel module for multiple clipboards. **Kernel Hooks**
- Software Engineering Intern** (June 2014 - July 2014)
Hazelcast, Istanbul R&D Office
Hazelcast is the industry leading in-memory computing platform.
- Developed sample Hazelcast integration modules. **Java, Hazelcast, Spring**
- Software Engineering Intern** (June 2013 - September 2013)
Kovan Research Lab, METU
KOVAN research lab is founded to study the synthesis of intelligent systems.
- Developed a web application for instructors to prepare exams. **Django, Mysql**

PUBLICATIONS	<ul style="list-style-type: none"> Demirpolat, A., Ergenc, D., Ozturk, E., Onur, E. 2018. "Software-defined Network Security". Enabling Technologies and Architecture for Next-Generation Networking Capabilities. IGI Global.
EDUCATION	<p>M.S., Computer Engineering (Dropout) Middle East Technical University, Ankara, Turkey</p> <p>B.S., Computer Engineering (Graduation: June 2016) Middle East Technical University, Ankara, Turkey</p>
TECHNICAL EXPERIENCE	<p>ADSES (September 2016 - December 2019) https://github.com/esrefozturk/adses</p> <ul style="list-style-type: none"> ADSES utilizes blockchain to store voting data transparently, albeit securely. <p>POA (March 2018 - April 2018) https://github.com/esrefozturk/poa</p> <ul style="list-style-type: none"> Proof of Authority Blockchain from scratch <p>Pwner (January 2014 - Present) www.0xdeffbeef.com</p> <ul style="list-style-type: none"> Practicing information security topics, organizing and participating Capture the Flag Competitions. <p>Checkmate (September 2014 - January 2015) CheckmateChess.github.io</p> <ul style="list-style-type: none"> Web application for playing chess running GNUChess in the background. <p>Hypnos (September 2015 - Present) senior.ceng.metu.edu.tr/2016/newline</p> <ul style="list-style-type: none"> Personalized sleep tracking and analyzing system that focuses on optimizing people's sleep. Arduino, Raspberry Pi, Android, Python, Django, Machine Learning
AWARDS & HONORS	<ul style="list-style-type: none"> First Place, CTF, Prodaft/Invictus Europe, Turkey, May 2016 First Place, CTF, STM Defence Technologies & Engineering Inc., Turkey, Oct 2015 First Place, Web Application CTF, Ankara University & Octosec Information Security Team, Turkey, May 2014 First Place of Turkey, 67th Team of All, IEEEExtreme Programming Competition 9.0, Oct 2015 Second Place, among foreign participants, Open All-Ukrainian Collegiate Programming Contest, Ukraine, Oct 2014 Honorable Mention, Hash Code, Google, Feb 2016 Honorable Mention, ACM ICPC, SEERC, Ukraine, Oct 2014 Honorable Mention, ACM ICPC, SEERC, Ukraine, Oct 2013 Honorable Mention, IEEEExtreme Programming Competition 7.0, Oct 2013 Honorable Mention, IEEEExtreme Programming Competition 6.0, Oct 2012 Honorable Mention, IEEEExtreme Programming Competition 5.0, Oct 2011 High Honor Student, METU Computer Engineering, Feb 2016 Certificate, Google Developer Challenge Scholarship, Udacity, Nov 2017 Certificate, MCNA - Network(Fast), Middle East Technical University - Continuous Education Center, May 2014