

## 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**

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