

Work Experience

Software Engineer

Google

Sep 2016 - Present

London, United Kingdom

- Worked on Wear OS, an operating system for smart-watches based on Android framework. My job involves designing, implementation and improving the system UI and developer-facing APIs.
- I was the Lead Engineer for Tiles, a new surface that displays glanceable app previews. This was a multi-quarter, multi-team project. Presented at Google I/O in 2019 (<https://bit.ly/tiles-google-blog>).
- Implemented a complication rendering API (<https://bit.ly/complication-rendering-api>) to help Watch Face developers support Complications. Presented at Google I/O in 2017 (<https://bit.ly/complication-rendering-io>).
- Set up logging and created monitoring dashboards for Complications and Tiles to analyse patterns and trends in user behaviour, to make sure we can make product decisions based on available data.

Google.org Fellow

Full Fact

Oct 2019 - Mar 2020

London, United Kingdom

- Worked on Automated Fact Checking (<https://fullfact.org/automated>) team for 6 months as a Google.org fellow (<https://j.mp/google-org-fellowship>)
- Designed and implemented APIs and a scalable infrastructure for a complex pipeline that involves running multiple natural language processing (NLP) algorithms on a big chunk of data in parallel, and merging the results of these to create a searchable index.
- Created an Entity Disambiguation API that can link multiple representations of a single entity (such as a person, organisation, date, price) together by augmenting Google Cloud Entity Recognition API with Wikipedia data.

Front-end Software Engineer

Anvato Inc.

Aug 2015 - Jul 2016

Ankara, Turkey

- Designed a JavaScript video player for Fire TV. HTML video rendering was slow compared to native rendering, so I added support for connecting it to a native Android video player via a JavaScript API. Worked with partners such as NBC and SNI to help with the integration.

VoIP Security Engineer Intern

NETAŞ Telecom Inc.

Summer 2014

Istanbul, Turkey

- Implemented a statistics module in C++ that receives real-time data from a network capturing system and exports the aggregated data to a remote database with an interval.
- I also checked the validity of the system by implementing a test module that compares the expected values and distributions to the observed ones using statistical test methods. Modules will be used in a VoIP firewall to detect intrusions, harmful activity and network anomalies.

Full Stack Software Engineer

Sinaps Inc.

Jul 2012 - Aug 2013

Ankara, Turkey

- Designed databases, MVC systems and complex SQL queries like friend suggestions and newsfeed collection. I took place in both backend and frontend development of Anlatsin (<https://anlatsin.com>) project.

Education

B.Sc. (Hons) in Computer Engineering, cGPA: 3.35
Bilkent University, Turkey

2011 - 2015

Publications

CoinAMI: A Cryptocurrency with DNA sequence alignment as proof-of-work

Bilkent University, Ankara

Feb 2016

- Short for Coin-Application Mediator Interface, it is made to distribute the workload of mapping reads to reference genomes using a volunteer grid computer approach while preserving the privacy of the participants. It is designed similar to Berkeley Open Infrastructure for Network Computing (BOINC).
- I was the project manager of the team and also worked on software & database architecture and the implementation of the web service. The project was initially a Senior Design Project and it was also presented in HiTSeq conference in Dublin, Ireland. More info can be found at <https://coinami.github.io>

Community Contributions

Google Sandbox: Istanbul

Google

July 2019

Istanbul, Turkey

- Gave a tech talk on "Wearable Technologies and Machine Learning", explaining limitations and challenges Google faces while making wearable devices, and how to achieve and maintain product quality despite these limitations. Also explained how current paradigm shifts and new developments in Machine Learning affect wearable technologies.
- Supported an Advanced Machine Learning Workshop that aims to teach developers how to extract, analyse and translate text from images using Google Cloud.

Honours & Awards

4th Rank, DefCamp Capture The Flag Competition (D-CTF)
CCSIR Cyber Security Research Center from Romania

Nov 2014

Bucharest, Romania

2nd Rank, National Cyber Security Competition (Siber Meydan)
The Scientific and Technological Research Council of Turkey

Dec 2013

Istanbul, Turkey

1st Rank, Regional Olympiad in Informatics
The Scientific and Technological Research Council of Turkey

May 2010

Izmir, Turkey

Bronze Medal, National Olympiad in Informatics
The Scientific and Technological Research Council of Turkey

Dec 2009

Ankara, Turkey

Silver Medal, National Project Olympiad in Informatics
The Scientific and Technological Research Council of Turkey

May 2009

Ankara, Turkey

Gold Medal, International Computer Project Olympiad
Turkmenistan Ministry of Education

Nov 2008

Ashgabat, Turkmenistan

Selected Projects

GenoScope

May 2012

Related Skills: Java Development, Object-Oriented Software Design

A visualizer tool for genomic annotation data, it supports different official and academical data-types for different statistical information about genetics. It also has a GitHub repository at <https://github.com/aling/parasight>

Smart Paper

Dec 2008 - May 2009

Related Skills: C++ Development, Computer Vision

A program that allows the user to use a paper and a pen as a touchpad or touch screen. It gets input from a webcam and detects the paper automatically. Awarded a silver medal at The National Project Olympiad held by TUBITAK. A detailed video about it can be found at <http://youtu.be/rBIZmNAtGXw>

Height Control

Nov 2008 - Dec 2008

Related Skills: C++ Development, Computer Vision

A program that measures height through webcam. Awarded a Gold Medal at International Computer Project Olympiad in Turkmenistan.

Technical Skills

Languages: Java, C/C++, Python

Areas: Android development, Web development, Data analysis, Image processing, Natural Language Processing, Cloud computing

Interests

Psychology, Political Economy, Emotional Intelligence, Art History, Board games