

# Bugra Ozkan

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## EDUCATION

### MS IN COMPUTER SCIENCE

CGPA: 3.64/4.00

Middle East Tech. Univ.  
(Among world's top 80)  
2010 - 2014

### BS IN COMPUTER ENGINEERING

CGPA: 3.06/4.00

Middle East Tech. Univ.  
2005 - 2010

## STRENGTHS

### PROGRAMMING

JS • Go • C++ • Python

### WEB

Node.js • Angular  
Meteor • React  
MongoDB • Express  
jQuery • Apache Kafka  
Protractor • Mocha  
Chai • Sinon  
Socket.IO • D3  
Bootstrap • Ionic  
Jenkins • gulp • Redis  
AWS • Google Cloud  
Splunk • GoCD  
HTML5 • CSS/SASS  
Grafana • Prometheus

### MOBILE

PhoneGap / Cordova  
React Native

### RESEARCH

Computer Vision  
Machine Learning  
Pattern Recognition  
Remote Sensing  
Perceptual Organisation

### VISION

Matlab • OpenCV

### VERSION CONTROL

Git • SVN

### PROJECT MANAGEMENT

Jira • Asana • Trello  
Basecamp

## WORK EXPERIENCE

### COMPARE THE MARKET | SENIOR SOFTWARE ENGINEER (DECEMBER 2018 - )

Tech: Node.js, React, GoCD, MongoDB, Express, Kafka, Prometheus, AWS

- Development & maintenance for Rewards platform of **comparethemarket.com**

### NEARENT | CO-FOUNDER (2018)

Tech: Node.js, Rails, MySQL, AWS

- **nearent.com** - a C2C rental marketplace with delivery and insurance features

### STRATAGEM | FULL-STACK WEB ENGINEER (2015 - 2018)

Tech: Angular, Node.js, Go, Python, MongoDB, Redis, Cassandra, RabbitMQ, AWS

- **stratabet.com** - football betting app that combines predictive algorithms with human analysis to show you the best betting opportunities
- **stratapro.co** - a sports trading platform with a combination of ML, performance analysis and financial trading information
- **stratasport.com** - an odds aggregator and match analysis platform
- **stratatips.co** - a subscription based platform providing betting tips
- **onsideanalysis.com** - data collection platform for Stratagem sports analysts

### BE-TECH | FOUNDER (2013 - 2015)

Tech: .NET, Kinect SDK, Meteor.js, React, MongoDB, Phonegap, Ionic

Developed **Be-Board**, a gesture-controlled, cloud based interactive white board using Kinect, and sold it to several elementary and high schools.

Designed and developed projects below for myself & my customers:

- **podcast.gift** - online podcast sharing platform, developed for Panda Network - <https://www.producthunt.com/tech/podcast-gift-2-0>
- **wobomo.com** - Q&A based social networking platform
- **hyperfixers.com** - online repair community where you share repairs and find repairers
- **mottom** - social networking mobile application for Turkish audience to share quotes - available on both App Store and Google Play
- **ballot** - mobile application for online voting - available on App Store and Google Play
- **ce-kettle** - mobile application to control a Wi-Fi kettle using Arduino

### MIDDLE EAST TECHNICAL UNIVERSITY (2010 - 2014)

- **Teaching Assistant** of *Fundamentals of Image Processing, Introduction to Computer Graphics, Introduction to Embedded Systems Development, Computer Engineering Design, Data Communications and Computer Networking* courses
- **Research Assistant** in (project details are provided in the following page)
  - Hasat Project
  - Border Ownership Estimation Project
  - Turkcell Remote Sensing Project

### V-COUNT | PART-TIME SOFTWARE ENGINEER (2010)

Tech: .NET, C#, OpenCV, Embedded Linux

- Worked in an automatic number plate recognition project

## PUBLICATIONS

### MASTER'S THESIS

Estimating Border Ownership Using Iterative Vector Voting and Conditional Random Fields

### JOURNAL

(In peer review)

*M. Akkus, G. Topuz, B. Ozkan, and S. Kalkan.*  
Analysis of Visual Cues and a Computational Model for Border Ownership. CVIU

### CONFERENCE

*B. Ozkan and S. Kalkan.*  
Extraction of border ownership information by conditional random field model.  
In IEEE 21st Signal Processing and Communications Applications Conference (SIU), pages 1-4, April 2013.

*M. Akkus, G. Topuz, B. Ozkan, and S. Kalkan.*  
A comprehensive database for border ownership. In Signal Processing and Communications Applications Conference (SIU), IEEE 21st, pages 1-4, April 2013.

## LANGUAGES

English: Fluent  
Turkish: Mother tongue

## AWARDS & ACHIEVEMENTS

2017 XRC Labs

Nearent has been selected among "**10 most promising startup companies** from around the world" and awarded funding in amount of **\$125,000"**

2012 Be-Board

Admitted to **TUBITAK Gradual Support for Individual Entrepreneurs** Program - awarded prize of **TL100,000**

2010 Turkcell

Admitted to the **Turkcell Technology Leaders** scholarship program

2005 720<sup>th</sup>/ 1.5 million

National Student Selection Examination

## RESEARCH PROJECTS

### BORDER OWNERSHIP ESTIMATION PROJECT | RESEARCHER

- Project goal: Estimating border ownership and acquiring accurate visual information from images using this information for perceptual organization

I developed:

- two different estimation models based on Tensor Voting and Conditional Random Fields
- an online border ownership annotation tool, and a data set of 1003 images with border ownership labels (collaboratively with other researchers)

### HASAT | RESEARCH SOFTWARE DEVELOPER

- Project goal: Automatic target detection & recognition from aerial images
- Involves over 150 targets, 50 project members and several associates including Turkish Armed Forces, Middle East Technical University and five companies

I developed:

- a rule-based, ontological target recognition framework
- a context-aware CRF model to solve target disambiguation problem
- detection algorithms for invasion and landing areas using Support Vector Machine & rule-based methods

### TURKCELL REMOTE SENSING PROJECT | RESEARCHER

- Project goal: Finding the most appropriate locations to build base stations by detecting growth and increase rates of trees & buildings

I developed:

- a supervised tree detection algorithm
- a building detection algorithm using spectral & spatial cues of shadows and buildings
- a complete remote sensing software (collaboratively with other researchers) using MATLAB, Google Earth API and .NET

## PERSONAL DETAILS

- I currently have a Tier 2 UK visa for 3 years.
- I love playing basketball, bowling and Texas Hold'em Poker.