

# Bugra Ozkan

bugraozkan@live.com • <https://bozkan.github.io> • +46769765993

## 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

Javascript • Go • Python  
C++

### 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

### CREDIM | CTO - STOCKHOLM (MAY 19 – JUN 20)

Javascript, HTML5, CSS, Node.js, React, Python, MongoDB, Express, Karma, Mocha.js, Chai.js, AWS

- Development of an online credit decision app

### BGL GROUP | SOFTWARE ENGINEER - LONDON (SEP 18 – APR 19)

Javascript, HTML5, CSS, Node.js, React, GoCD, MongoDB, Express, Kafka, Prometheus, Splunk, Mocha, Chai, Cypress

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

### NEARENT | CTO - LONDON (MAR 18 – NOV 18)

Javascript, HTML5, CSS, Node.js, Rails, MySQL, AWS

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

### STRATAGEM | SOFTWARE ENGINEER - LONDON (2015 – 2018)

Angular.js, 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 | FOUNDING ENGINEER - ANKARA (2013 – 2015)

.NET, Kinect SDK, C#, Javascript, HTML5, CSS, Meteor.js, React, MongoDB, Apache Cordova, Ionic

Designed and developed projects below:

- **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
- **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

### MIDDLE EAST TECHNICAL UNIVERSITY ANKARA - (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)

.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

*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 " <b>10 most promising startup companies</b> " from around the world" and awarded funding in amount of <b>\$125,000"</b> |
| 2012 | Be-Board                        | Admitted to <b>TUBITAK Gradual Support for Individual Entrepreneurs</b> Program - awarded prize of <b>TRY100,000</b>                                     |
| 2010 | Turkcell                        | Admitted to the <b>Turkcell Technology Leaders</b> 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 associates including Turkish Armed Forces, Middle East Technical University and a dew defense industry companies

I developed:

- a rule-based, ontological target recognition algorithm
- a context-aware CRF model to solve target disambiguation problem
- detection algorithms for invasion and landing areas using SVM & 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:

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

## PERSONAL DETAILS

- I hold a work permit in Sweden.
- I love playing basketball, bowling and Texas Hold'em Poker.