

Bugra Ozkan

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EDUCATION WORK EXPERIENCE

MS IN COMPUTER SCIENCE

CGPA: 3.64/4.00

High Honor Student
Middle East
Technical University
(Among world's top
80 universities)
2010 - 2014

BS IN COMPUTER ENGINEERING

CGPA: 3.06/4.00

Honor Student
Middle East
Technical University
2005 - 2010

STRENGTHS

PROGRAMMING

C • C++ • C# • Go
.NET • JS • Python

WEB

HTML5 • CSS/SASS
Typescript • Node.js
Angular • Meteor
React • Rails
MongoDB • MySQL
Jade • Ajax • Karma
Protractor • Mocha
Socket.IO • D3
Bootstrap • Ionic
Jenkins • gulp
Redis • AWS

MOBILE

Android SDK
PhoneGap/Cordova

RESEARCH

Computer Vision
Machine Learning
Pattern Recognition
Remote Sensing
Perceptual
Organisation

VISION

Matlab • OpenCV
Kinect SDK

GRAPHICS

OpenGL

CONTROL

Git • SVN

STRATAGEM | SENIOR FULL-STACK WEB ENGINEER (JUL 2015 – NOW)

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

I am one of the three full-stack developers of

- **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 analysts

BE-TECH | FOUNDER & ENGINEER (APR 2013 – JUL 2015)

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

- I developed **Be-Board**, a gesture-controlled, cloud based interactive white board using Kinect, and sold it to several elementary and high schools
- I designed and developed projects below for myself & my customers:
 - **nearent.com** - a C2C rental marketplace with delivery and insurance features
 - **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 (In collaboration with a Master's Degree Graduation Project in RCA)

MIDDLE EAST TECHNICAL UNIVERSITY (SEP 2010 – SEP 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 | SOFTWARE ENGINEER (MAR 2010 – AUG 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
French: Beginner
German: Beginner

AWARDS & ACHIEVEMENTS

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|------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 th / 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 framework

PERSONAL DETAILS

I love playing basketball, bowling and Texas Hold'em Poker.