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
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

ANTLER | entrepreneur (Jun 19 – Nov 19)
Tech: Node, React, Python, MongoDB, Express, Karma, AWS
- Worked on development of an online credit decision app

COMPARE THE MARKET | senior software engineer (Dec 18 – May 19)
Tech: Node, React, GoCD, MongoDB, Express, Kafka, Prometheus, Splunk, Cypress
- 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, cheap smartboard alternative. Sold it to 15 high schools in Turkey

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
- **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
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 **TRY100,000**
2010	Turkcell	Admitted to the **Turkcell Technology Leaders** scholarship program
2005	720th/ 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.