Bugra Ozkan

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EDUCATION

MSc in Computer Science
CGPA: 3.64/4.00
Middle East Tech. Univ.
(Among world's top 80)
2010 - 2014

BSc in Computer Engineering
CGPA: 3.06/4.00
Middle East Tech. Univ.
2005 - 2010

SKILLS

LANGUAGES
Javascript • Go • Python

WEB
Node.js • React • Vue
Angular • Meteor • Nuxt
MongoDB • jQuery
Express • Kafka • Jasmine
Protractor • Mocha
Chai • Sinon • Cypress
Socket.IO • D3.js
Jenkins • gulp • Redis
AWS • Google Cloud
Splunk • GoCD
HTML5 • CSS/SASS
Grafana • Prometheus
Docker • Kubernetes

RESEARCH
Computer Vision
Machine Learning
Pattern Recognition
Remote Sensing
Perceptual Organisation

VISION
Matlab • OpenCV

WORK EXPERIENCE

CREDIM | CTO - STOCKHOLM (MAY 19 – JUL 20)
Node.js, *React*, *Python*, *MongoDB*, *Express*, *Mocha*, *Chai*, *Sinon*, *AWS*

- Development & maintenance of an online credit decision app for Nordic countries

BGL GROUP | SENIOR SOFTWARE ENGINEER - LONDON (2018 – 2019)
Node.js, *React*, *MongoDB*, *Express*, *Kafka*, *Prometheus*, *Splunk*, *Mocha*, *Chai*, *Sinon*, *Cypress*, *Kubernetes*, *AWS*, *GoCD*

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

NEARENT | CTO - LONDON (2017 - 2018)
Node.js, *React*, *Jest*, *Ruby on Rails*, *MySQL*, *AWS*

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

STRATAGEM | SOFTWARE ENGINEER - LONDON (2015 – 2017)
Angular, *Node.js*, *Go*, *Python*, *MongoDB*, *Redis*, *RabbitMQ*, *AWS*

- **stratabet.com** - sports trading application which combines predictive algorithms with human analysis to show you the best betting opportunities
- **stratapro.co** - sports trading platform with a combination of ML models, performance analysis and financial trading information
- **stratasport.com** - odds aggregator and match analysis platform
- **stratatips.co** - subscription-based platform providing betting tips

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
- **Researcher** in three projects (details are provided in the following page)

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: Native

ACHIEVEMENTS

2017 Nearent got accepted to XRC Labs among **10 most promising startup companies from around the world** and awarded seed funding

2010 Recipient of Turkcell Technology Leaders scholarship program for Master's Degree

2005 Ranked **720th** out of 1.5 M examinees in the Undergraduate Placement Exam in Turkey

RESEARCH PROJECTS

BORDER OWNERSHIP ESTIMATION PROJECT | Research Engineer

- 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