

Bugra Ozkan

Software Engineer • bugraozkan@live.com • <https://bugraozkan.net> • +447957764222

EDUCATION

MS IN COMPUTER SCIENCE

CGPA: 3.64/4.00

Middle East Technical University

2010 - 2014

BS IN COMPUTER ENGINEERING

CGPA: 3.06/4.00

Middle East Technical University

2005 - 2010

SKILLS

LANGUAGES

Javascript • Go •

Python C++

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 • Gitlab CI

Splunk • GoCD

HTML5 • CSS/SASS

Grafana • Prometheus

Docker • Jest

Kubernetes

RESEARCH

Computer Vision

Machine Learning

Pattern Recognition

Remote Sensing

Perceptual

Organisation

VISION

Matlab • OpenCV

WORK EXPERIENCE

CALLSIGN | SENIOR JAVASCRIPT ENGINEER - LONDON (APR 21 – PRESENT)

Tech Stack: *Javascript, Node.js, Express, Jest, AWS, Gitlab CI, Docker, Webpack, Babel, SonarQube, Kubernetes*

- Browser data collection application with user profiling capability for fraud detection, authorization and authentication

CREDIM | CTO - STOCKHOLM (MAY 19 – JUL 20)

Tech Stack: *Node.js, React, Python, MongoDB, Express, Mocha, Chai, Sinon, AWS, Docker, Kubernetes*

- Development of an online credit decision app for Nordic countries

BGL GROUP | SENIOR SOFTWARE ENGINEER - LONDON (2018 – 2019)

Tech Stack: *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)

Tech Stack: *Node.js, React, Jest, Ruby on Rails, MySQL, AWS*

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

STRATAGEM | FULL-STACK SOFTWARE ENGINEER - LONDON (2015 – 2017)

Tech Stack: *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

BE-TECH | FOUNDER - ANKARA (2013 – 2014)

Tech Stack: *Kinect SDK, Java, JS, Meteor.js, React, MongoDB, PhoneGap, Ionic*

- **podcast.gift** - online podcast sharing platform
- **wobomo.com** - Q&A based social networking platform
- **hyperfixers.com** - online repair community
- **mottom** - social networking mobile app (in Turkish)
- **ballot** - mobile app for online polling - available on App Store & 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
- **Researcher** in three projects (details are provided in the following page)

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

Tech Stack: *.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

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 few 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

ACHIEVEMENTS

- 2017 - Nearent was accepted to XRC Labs in NYC and got seed funding.
- 2010 - Recipient of Turkcell Technology Leaders scholarship program for Master's Degree.
- 2005 - Ranked 720th out of 1.5M students in the Undergraduate Placement Exam in Turkey.