

Muratcan Çiçek
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Education

University of California, Santa Cruz – California 2017-Expected 2022

PhD in Computer Engineering, newly admitted with Chancellor's Fellowship, Advisor: Roberto Manduchi,

Relevant course work: Image Analyzing and Computer Vision, Analysis of Algorithms

Teaching Assistantship on Fall 2018 for the Universal Access course

Individual Study 1: Gaze-Contingent Screen Magnification on Mobile Devices by using LSTM on TensorFlow

Individual Study 2: Fitts' Law Evaluation of a robust head-based pointing that employs 3D Head-Tracking algorithms

Ozyegin University, Istanbul – Turkey September 2013-June 2017

B.S. in Computer Science, GPA: 3.68, High Honor Student 2013-2016

Relevant course work: Computer Vision, Automata Theory & Formal Languages, Advanced Object-Oriented Programming, iOS Application Development, Game Design and Development, Database Management Systems

Senior Project: Improving the product search algorithm of GittiGidiyor (eBay) by using machine learning

Experience and Projects

Google, Mountain View– California

Software Engineering Intern

June 2019-September 2018

- Summer Intern in Fuchsia UX Team at Google
- Developed an edge-cutting Head-based Pointing on Flutter for both Android and iOS
 - Flutter allowed us to build a cross-platform App that provides touch-free interaction
 - Customized TensorFlow Lite models for face detection and facial landmark detection
- Applied a user study on the subjects with motor impairments
- Research paper will be completed by September

eBay, San Jose– California

Research Intern PhD

June 2018-September 2018

- Summer Intern in Computer Vision Team at eBay
- Implemented an open-source on Head-based Pointing method for iOS
 - This revolutionary interaction method does not require any physical touch to navigate Apps
 - Available on github.com/eBay/HeadGazeLib
- Research paper completed as “Mobile Head Tracking for eCommerce and Beyond”
 - Available on <https://arxiv.org/abs/1812.07143>
- The project was selected the top intern project of the year in the company
- The technology has been recognized as one of Fast Company's World Changing Ideas for 2019

Turkcell, Istanbul – Turkey

Researcher

October 2016-December 2017

- Worked as a researcher at Turkcell, Turkey's largest GSM operator, to build a new music recommendation system for Fizy, which is a competitor to Spotify in Turkey
- Analyzed the fingerprints of the songs from Fizy's music library in terms of similarity and built the recommendation system based on the fingerprint similarity; used machine learning methods to integrate mood-based and lyrics-based recommendation methods to the recommendation system

GittiGidiyor (an eBay subsidiary), Istanbul – Turkey

ne Learning Engineer

September 2016-September 2017

- Implemented a parser to analyze massive clickstream data which streamed from Apache Kafka and stored on the Hadoop Distributed File System; used Spark via Python for the advanced analysis on the user behavior
- Researched on the edge-cutting ranking algorithms; adapted a pair-wise ranking algorithm according to the current architecture; implemented this algorithm, ran offline to measure the outputs; used feature selection techniques to improve the accuracy

Designing A Wearable Wireless Mouse

March 2015--June 2017

- Designed a mouse that could be used by disabled people, who are unable to utilize the “traditional” mouse This new mouse:
 - Converts little body movements to mouse inputs
 - Can also be used in the gaming industry, as it provides enhanced control to video gamers;
 - Can be produced approximately five times cheaper than its competitors
- Presented the project to investors during the “Innovation Week of Turkey”, the largest technology organization in Turkey; Turkcell, Turkey’s largest GSM operator, pledged to finance the project.
- Presented the project to HP, in their headquarters in Silicon Valley

Fiba Holding, Istanbul – Turkey

February 2014- September 2017

Programmer

- Developed and maintained the Student Information System of Ozyegin University (sis.ozyegin.edu.tr) as a member of the IT office of Fiba Holding; the Student Information System of Ozyegin University is a web application that provides connection between all stakeholders of the university and is actively in use

Honors and Awards

Invitation to Google Students with Disabilities Scholars Retreat 2017

July 2017

- Attended this event which took place in London Office of Google as a Google Student with Disabilities Scholar, the event aimed to bring the participants closer to Google and other students with disabilities in the tech industry, celebrate their achievements since being awarded the Students with Disabilities Scholarship, meet and have the opportunity to network with Googlers to find out more about Google products, technologies and roles

Google Europe Scholarship for Students with Disabilities 2016

May 2016

- Received the “Google Europe Scholarship for Students with Disabilities”, a €7,000 scholarship for the 2016- 2017 academic year; scholarships were awarded based on the strength of the applicant's academic background, leadership skills and demonstrated passion for Computer Science

Ozyegin University Dean's Scholarship for bachelor’s degree of CS

Game Programming Workshop V, Ozyegin University

February 2013

- Won the fifth Game Programming Workshop at Ozyegin University among 1200 competitors; the workshop was sponsored by Google; received a full scholarship of approximately USD 100,000 for the B.S computer science program at Ozyegin University

Voluntary Experience

Young Guru Academy, Istanbul - Turkey

Volunteer

February 2015-Present

- Attended the YGA Leadership School, which is a special leadership program aiming to cultivate socially conscious leaders among university students by allowing them to attend leadership seminars and partake in various volunteer projects; was selected, among 50.000 candidates, after four elimination phases
- Organized transportation logistics for the YGA leadership conference that hosts around 3000 university students and CEOs of prominent companies; responded by email to the complaints received by attendees about the leadership conference
- Prepared lectures on leadership skills that were taught weekly to children with impaired vision

LOSEV, Istanbul - Turkey

Volunteer

March 2014-May 2014

- Sold home-made products at Ozyegin University, among others, bags, dolls, accessories, to collect donations for leukemic children

Skills and Interests

Skills: C/C++, C#, Java, Scala, F#, Flutter, SQL, Matlab, Python, Numpy, Scikit-learn, TensorFlow, TF Lite, TFJS, OpenCV, Intel RealSense SDK, Spark, Mlib, Hadoop, MapReduce, Cloudera, Hortonworks Sandbox, Android SDK, Xcode, Unity, Linux, GitHub

Interests: Blogger, Amateur Writer (short stories and novels), Chess and Hex, Video Games