Fatma Kevser Akcay

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EDUCATION

HARVARD UNIVERSITY
BA in Computer Science
May 2016
Senior Thesis: An Analysis of the Stagefright Bugs (Android Security)

SELECT COURSEWORK
Machine Learning
Multi-Agent Robotic Systems
Artificial Intelligence
Computational Theory
Functional Programming
Object-Oriented Programming
Computer Graphics
Networks

SKILLS

PROGRAMMING LANGUAGES
Proficient:
Python • Javascript (Node.js, React.js)
OCaml • HTML/CSS • LaTeX
Intermediate:
C++ • C

PLATFORMS
Amazon Web Services • Google Cloud Platform • Linux

LEADERSHIP

THE HARVARD CRIMSON
Web Design Comp Director
January 2014 - May 2016

HARVARD NMUN
Associate Director
January 2015 - May 2016

HARVARD UNIVERSITY
Teaching Fellow
July 2014 - May 2016

LINKS

Website:// fatmaakcay.github.io
Github:// fatmaakcay
LinkedIn:// Fatma Kevser Akcay

INTERESTS AND HOBBIES
Running, snowboarding, fine arts

CURRENT LOCATION
London, UK

EXPERIENCE

VIVACITY LABS | Software Engineer
April 2017 – Present
- Contributed to computer vision/ machine learning projects, including research and use of open-source ML libraries.
- Built and maintained web app to configure and control 2,500+ IoT sensors in the field, from scratch.
- Lead engineer on proof-of-concept connected autonomous vehicles project.

VALVEN | Software Engineer
January 2017 – March 2017
- Created iOS application for Edge, a network management and analytics web service for SOHO owners.
- Started planning deep learning algorithm (including architectural planning) for gamification retail reward system.

WELLIST | Software Engineer Intern
September 2014 – May 2015
- Online navigation tool to help patients and lay caregivers connect to non-clinical services.
- Built out the Wellist API as the second SWE on the team.
- Implemented the algorithm to give service recommendations based on user profile.

PROJECTS

Multi-Agent System Application to Controlled Warehouse Delivery | Python + Berkeley's Pacman Platform
Simulated a multi-agent swarm system for warehouse package delivery that accounts for traffic along a chosen path. Algorithm inspired by AntNet and drone-hive model for dispatching robotic bees.

ROSpy Autonomous Robot Photographer | Python
Developed an autonomous robot that used Haar cascades face detection to find, approach and ask users to pose with props for a photo. The user could respond to the photo request verbally or through key input. Once taken, the photos were posted to the robot's Twitter account

IoT Fall Detection System | Arduino + Java
Created a multiple sensor WiFi enabled system that detects falls in small areas. System uses distance data from ultrasound and LIDAR-lite sensors to determine position of user. Used machine learning techniques to make the system user-specific.

Neural Nets Emoji Recognition Software | Python
Implemented hand-drawn emoji recognition software using neural nets. Trained NN using backpropagation and genetic algorithm to determine which method was favorable.