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
Networks

SKILLS

PROGRAMMING LANGUAGES
Javascript (Node.js, React.js) • C++ • Python • C • OCaml

DATABASE SYSTEMS
TimescaleDB • Postgres • Redis • MongoDB

PLATFORMS
Amazon Web Services • Google Cloud Platform • Linux

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 | Product Development Engineer
April 2017 – Present

- Lead engineer on proof-of-concept connected autonomous vehicles project.
- Built and maintained API and DB systems to process and serve telemetry data to clients consisting of millions of data points.
- Built and maintained IoT infrastructure to configure and control 2,500+ IoT sensors.
- Built and maintained web app to configure and control 2,500+ IoT sensors in the field.

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. [Paper]

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.