Danish Arsalan

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EDUCATION

University of Illinois at Urbana-Champaign — Expected graduation: May 2019
B.S. in Statistics and Computer Science — GPA: 3.63

Coursework

- Introduction to Computer Science (with Honors)
- Discrete Structures
- Data Structures (with Honors)
- Computer Architecture
- Linear Algebra
- Text Informatics

WORK EXPERIENCE

API Designer and Integrator

ForNoJo LLC - Champaign, IL

Aug 2017 – Dec 2017

- Responsible for designing API structure for ongoing project and producing a swagger.io layout.
- Projects included aspects of sound manipulation, augmented reality maps, and socket clusters.
- Small team collaboration with tight deadlines.
- Priority on development of applications which can handle constant and heavy user traffic.
- 20+ hours of development every week.

Mobile Developer

Interpreter Tap – Remote Internship

May 2017 – Aug 2017

- Responsible to develop an Android frontend interface for the Interpreter Tap infrastructure.
- Utilize libraries prebuilt to fit specification by the project manager.
- Allow for the user to search and match with interpreters for specific languages as set up by the server.
- Priority on accessibility features and ease of use.
- 30+ hours of development per week.

PROJECTS

dontfowl.me – HackIllinois 2017

- Winner of Google's Choice award
- New NLP model which is more consistent and more reliable than BoW or n-gram.
- Programmed with Go by using a lexical feature approach on dependence trees and relating it to every part of speech tag of the text.
- github.com/anantdgoel/DontFowl.me

Study Buddy – Group Project

- Study Buddy is an android app meant to pair students looking for others to study with them in a subject of their choice.
- Currently in development for Android and will be released for iOS soon after its release.
- Facebook authentication, Google location services APIs and authorization on the backend (Python/Flask)
- github.com/StudyBuddy-cs196/mobile

Safe Shepard – Pyghacks

- 2nd place overall and Wolfram Alpha sponsor award.
- Finds the safest and shortest route on Google Maps in the Champaign-Urbana area.
- Uses Mathematica as backend; probability density function to map crime in the given area, then reads multiple routes generated with Google Maps as input to assign 'danger' values on each route, finally displaying the optimal route.
- Statistical model on Mathematica can be used with other data to also sway routes away from or towards.
- github.com/danisharsalan/SafeShepard

SKILLS

Android - Java, XML, Android Studio
iOS – Swift, Objective-C, Xcode, Cocoa Touch
Web – Javascript, MongoDB, SQL, HTML/CSS, Angular/React, NodeJS, Express, Python 2, Flask, Socket Clusters
Data Science – Python 3, R, Go, Mathematica, Regression, Classification, Clustering
Other – Git, SVN, C++, C#, MATLAB, Verilog, GTXWave, JSON