SARTHAK KHANNA

EDUCATION

Arizona State University
MS in Computer Engineering (Computer Systems)
Current GPA 3.37
2016 – 2018 | Tempe, AZ

Vellore Institute of Technology
B.Tech in Electronics and Communications Engineering
Cumulative GPA 8.75/10
2012 – 2016 | Vellore, India

SKILLS

LANGUAGES

Proficient:
Python • HTML/CSS

Basic:
SQL• PHP • JavaScript
Matlab • C

FRAMEWORKS / LIBRARIES

Flask • jQuery • Bootstrap • Jekyll • Wordpress • Scikit-Learn
pandas • numpy • matplotlib
seaborn

TOOLS

Git • MySQL • phpMyAdmin
Linux • Unreal Engine 4

CONTACT INFORMATION

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RELATED COURSE WORK

Database Management
Foundations of Algorithms
Software Security
Mobile Computing
Artificial Intelligence
Statistical Machine Learning
Communication Networks

EXPERIENCE

Technical Developer at Stealth Gaming, Vellore (2014 -2016)

- Developed the website and implemented a web based cafe management system.
- Maintained the technical infrastructure on a day to day basis.

Student Researcher at Creation Labs, VIT Vellore (2013-2015)

- Engineered a home automation solution which won at a hackathon
- Developed multiplayer PC based games using Unreal Engine 4.
- Developed various small gadgets and solutions at various hackathons - Baby vitals monitoring with self-made sensors using Arduino, Notifier and Connectifier (a hardware hack to make a low cost google glass alternative). Propeller Clock (Persistence of Vision based clock).

PROJECTS

Theatre Management system, ASU 2017

- A management system built using Flask on python. Setup up a SQL database and performed various tasks like insertion, updates, deletes along with using indexes and triggers in the database.
- Aimed for administrators and users. The user can book tickets to a show and the administrator can schedule various shows, set ticket prices change show locations.

Airbnb New User Bookings Prediction, ASU 2016

- Processed raw data, making it usable for further analysis. Used the python Pandas library
- Performed feature engineering and statistical analysis of the data obtaining relevant insights using scikit-learn
- Implemented traditional classifiers and observed the accuracy. Tested blended ensemble of classifiers

Stuttered Speech Recognition, VIT 2016

- Modified an existing algorithm to facilitate speech recognition for people suffering from stuttering
- Performed audio processing and stutter removal in Matlab
- Designed a neural network to learn from training samples to remove stutter from new test inputs in python, this new audio was then passed to the Google speech API to be recognised without the stutter.

Digit recognition using Matlab, VIT, 2015

- Created a backward propagation neural network to recognize hand written digits using Matlab

Home Automation system, VIT 2014

- Designed and developed a modular home automation solution at a hackathon (runners up)
- Built the prototype mobile app using MIT app inventor and fabricated the prototype electronic board.

Web Development (VIT, 2014)

- Created websites for local business around college campus using HTML, CSS, JQuery and web frameworks like Bootstrap.