Ashwin Jose Poruthukaran

SUMMARY

Computer Science graduate with 2 years of experience in the Technology Consulting Domain. Self-driven software developer with a passion for problem-solving. Currently seeking full-time opportunities.

TECHNICAL WORK EXPERIENCE

- **Business Technology Analyst, Deloitte USI, Bengaluru, India (August 2016 – July 2018)**
  - Developed customized SAP ERP solutions to suit client requirements. Optimized pre-existing solutions to enhance performance.
  - Identified and implemented SAP ABAP modules to help make client workflows faster and more efficient.
  - Developed an incident tracking system over Microsoft SharePoint, replacing manual incident tracking using excel sheets and helped save close to 4 hours per teammate, weekly.
  - Deployed shell scripts to migrate files & data from traditional data storage systems to SharePoint, minimizing time & effort in data consolidation.
  - Technology: SQL, SAP ABAP, SAP SD, SAP MM, SharePoint
- **iOS Developer - Intern, QBurst Technologies, Kochi, India (May 2015 – June 2015)**
  - Developed an Apple watch application to improve productivity by tracking the user's physical activity and notifying the user when he/she was idle for extended periods of time.
  - Technology: iPhone, Apple Watch, iOS App Development.

ACADEMICS

Master of Computer Science (May 2020)	Arizona State University	3.7
B. Tech - Computer Science & Engineering (2016)	Model Engineering College (CUSAT)	8.57

TECHNICAL PROJECTS

- **Drone recovery using UAV**
  - Developed an application as part of the 2019 CPS-VO UAV Challenge that allows a UAV to search through a terrain, identify objects and assist in the recovery of previously lost drones.
  - Technology: Python, ROS, MavLink, MavROS, Gazebo, Multi-UAV Control
- **Traffic flow prediction with ML**
  - Developed an application that predicts the flow of traffic for future dates based on temporal, spatial and other external features like weather conditions using ExtraTreesRegressor model. The application performed with an RMSE of under 16%, which was comparable to that of results produced by deep learning algorithms.
  - Technology: Python, Scipy, Numpy, Pandas, Scikit-learn
- **Driving Companion – Sleep detection from heartrate using ML**
  - Developed an Android application that integrates seamlessly with Fitbit smartwatches to continuously monitor heartrate and detect drowsiness while driving using a set of ML models like SVM, Linear regression etc.
  - Technology: Android, Fitbit SDK, Google Maps SDK, Python, Scipy, Flask
- **Advanced Encryption Scheme (AES)**
  - Developed a C++ application that implements basic AES-128,192&256 with a CBC mode and PKCS7 padding.
  - Considering timing and cache attacks, bit slicing was also implemented to improve resistance.
  - Technology: C++, BCryptGenAPI
- **Interactive Data Visualization on Yelp Reviews**
  - Developed a D3.js based web application to provide an interactive visualization of user reviews on Yelp using the Yelp Dataset.
  - Technology: HTML, CSS, JavaScript, D3.js
- **Distributed Working environment**
  - Developed an application, running on Apache Hadoop, to help enhance sharing and collaboration among students for projects. The project, comprising a custom file browser, inbuilt chat, and notification mechanisms, helped reduce student effort.
  - Technology: Apache Hadoop, Java, NodeJS, JavaScript, HTML, CSS

ACHIEVEMENTS

- Winner, InfernoHack 2018, WP Carey School of Business. Developed an Alexa Skill beneficial to user & business alike.
- Multiple accolades for outstanding performance at Deloitte USI consulting.
- Runner-up at Excel Quiz 2013 (Annual national techno-managerial symposium of Model Engineering College).

POSITIONS OF RESPONSIBILTY

- Design Manager, Excel 2015 (Annual national techno-managerial symposium of Model Engineering College).
- Secretary, Illuminati Quiz Club for 2015-2016 (Govt. Model Engineering College).
- Design Head (Core Team Member), IEEE Student Branch for 2014-2015 (Govt. Model Engineering College).

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Programming Languages
- Java
- Python
- C++
- C
- HTML5
- JavaScript
- CSS
- SQL
- ABAP
- PHP
- MATLAB
- R

Libraries & Frameworks
- Tensorflow
- Pandas
- Numpy
- React JS
- Django
- Scipy
- Postgres
- D3.js
- Hadoop

Enterprise Software
- SAP Enterprise
- Microsoft Office Suite
- Adobe Creative Suite

Operating Systems
- Windows
- Ubuntu
- Mac OS
- Android
- ROS

Areas of Interest
- Machine Learning
- Artificial Intelligence
- Mobile App Development
- Data Structures
- Algorithms
- Cybersecurity
- Data Visualization
- UI/UX Design
- Graphic Design