Akash Selvakumar
https://akash97s.github.io | 667-802-9642 | akashs1@umbc.edu

EDUCATION

University of Maryland, Baltimore County   **Baltimore, MD**
MS in Information Systems, *GPA – 3.87 / 4*   *May 2021*
St. Joseph's College of Engineering   **Chennai, India**
BE in Computer Science   *May 2019*

TECHNICAL SKILLS

Programming:	Java, Python, Ruby
Front-end:	HTML, CSS, JavaScript, ReactJS, VueJS, React Native, Bootstrap
Back-end:	Servlet, Sinatra, Flask, NodeJS, Express, Django
Database:	Oracle, MySQL, PL/SQL, MongoDB
Others:	Git, Firebase, AWS, Docker, Selenium, Postman, JMeter, Pytest, Redux

WORK EXPERIENCE

Software Engineer Intern, FRESHWORKS   **India, Feb 2019 - May 2019**
- Created an administrative tool similar to PHP MyAdmin with VueJS and Ruby Sinatra to perform CRUD operations *reducing data access time to 1 second.*
- Developed a component that fetches data from any table in the database and display the results with an elegant UI *reducing 100's of lines of monotonous code.*
- Visualized the data using HighCharts library for the users.

Web Application Development Intern, HASURA   **Remote, Nov 2017 - Feb 2018**
- Worked as part of a team that developed a *Paypal Express Checkout service* for ecommerce applications.
- Developed the checkout gateway user-Interface using ReactJS and Material Design.
- Cloned Twitter's User-Interface using *ReactJS and Material Design* as part of an Individual project.

Student Worker, COEIT LAB, UMBC   **Baltimore, Summer 2020**
- Built a CNN model to detect Covid-19 from x-rays and deployed it as a web app using *Flask.*
- Developed a hybrid app to serve results of any hosted ML models using *Firebase* and *React Native Expo.*
- Deploying machine learning models as *REST API's.*

Research Assistant, Accelerated Cognitive Cybersecurity Laboratory, UMBC   **Baltimore, Spring 2021**
- Developed a prototype using *ReactJS* and *Django* for the Mitigate project.
- Integrated Django backend hosting the core service with a elegant user-facing responsive React frontend.
- Helped in tuning the *architecture* and *design* of the project to deploy as an *Application as a Service.*

Teaching Assistant, Department of Information Systems, UMBC   **Baltimore, Spring 2021**
- Teaching and Grading Assistant for *IS 427 Introduction to Artificial Intelligence: Concepts and Applications.*
- Responsible for *grading* assignments and final course project.
- Held weekly office hours to mentor and guide *30+ undergraduate students.*

Freelancing:
Developed a website using GoDaddy website builder for disseminating information about nano-crystals: https://singhmstech.com.

PROJECTS

Phishing Detection:
Detecting phishing network using machine learning algorithms like *XGBoost, MLP and Random Forest Classifier.*
Covid_Detect:
A cross-platform mobile app to predict Covid-19 from X-rays using *Convolutional Neural Networks, React Native, Flask and Firebase.*
On_Track:
A cross-platform Progressive Web App (PWA) to plan events, set reminders and track your schedule using *Vanilla JS and Firebase.*
Spot:
An Android app for identification of crop diseases using *Convolutional Neural Networks and Image Processing.*
Voice-Bot 2.0:
A *Machine Learning* based voice bot solution for Customer Support using *Python and Google Speech Recognition.*
Crypto-Rate:
A *Server-less web application* to learn about crypto currency rates and more using *ReactJS.*