

Akash Selvakumar

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EDUCATION

University of Maryland, Baltimore County
MS in Information Systems, **GPA – 3.97 / 4**
St. Joseph's College of Engineering
BE in Computer Science

Baltimore, MD
Expected: May 2021
Chennai, India
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*.