

Akash Selvakumar

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EDUCATION

UNIVERSITY OF MARYLAND BALTIMORE COUNTY

MS IN INFORMATION SYSTEMS

May 2021 | Baltimore, MD

GPA: 3.87 / 4.0

ST. JOSEPH'S COLLEGE OF ENGINEERING

BE IN COMPUTER SCIENCE

May 2019 | Chennai, India

SKILLS

Programming:

Java • Python • Ruby

Front-end:

HTML • CSS • Javascript • ReactJS

VueJS • React Native • Bootstrap

Backend-end:

Flask • Express • Sinatra • Django

• PHP

Database:

Oracle • MySQL • PL/SQL

• MongoDB

Testing:

Jest • Pytest • Selenium • JMeter

Others:

Git • Firebase • AWS • Docker

Redux • Electron • Node

ACHIEVEMENTS

- Spearheaded a talented team to the finals of Smart India Hackathon 2018 organized by the Government of India.
- Secured a Top 100 rank in IMAD exam by Hasura and NPTEL.
- Won various technical events in symposiums at IIT, MIT etc.
- Organized and conducted various technical events during college symposiums.

CERTIFICATIONS

- Core and Advance Java, NIIT
- Full Stack Blockchain, Udemy
- Restful API's, LinkedIn
- React Bootcamp, Udemy
- AWS Machine Learning, Udacity

EXPERIENCE

ZS | BUSINESS TECHNOLOGY SOLUTIONS ASSOCIATE

Sep 2021 - Present | New York City, NY

- Working on Microsoft Power Apps platform to build business applications for leading Pharmaceutical companies.
- Integrating and Managing data from various sources like SQL server, SharePoint, Excel, Azure etc.
- Analysing and Visualizing data using Microsoft Power Apps and Power BI platforms.

FRESHWORKS | SOFTWARE ENGINEER INTERN

Feb 2019 - May 2019 | Chennai, India

- Created an administrative tool similar to PHP MyAdmin with VueJS and Ruby Sinatra to perform CRUD operations optimizing data access time to < 1 second.
- Developed a re-usable component to fetch data from the database and display results with an elegant UI reducing and refactoring 100's of lines of monotonous code.
- Analysed and Visualized data using HighCharts.js for managerial level users.

ANONITECH | FULL STACK DEVELOPER

July 2021 - Sep 2021 | Baltimore, MD

- Responsible for developing a cross-platform production ready desktop application using Electron.
- Co-ordinating with a team of developers through the entire software development life-cycle of the product consisting combined code-base of more than 5000 lines of code.
- Analyzing business requirements to constantly improve the efficiency and scalability of the core algorithm by closely communicating with the entire team to enhance the architecture to deploy a full-fledged product.

UMBC | RESEARCH ASSISTANT

Jan 2021 - May 2021 | Baltimore, MD

- Collaborated with a team of researchers to develop a full-stack web application to deploy a Network data anonymization tool with a accuracy of 90 percent.
- Developed a simple and efficient Flask back-end communicating through a REST architecture with the responsive React front-end.
- Unit and Integration tested the entire application using Jest and Pytest with a code coverage of more than 80 percent.

PROJECTS

REST API | Backend

- An Express API to provide customized stock market data deployed on AWS Lambda integrated with DynamoDB to store results and exposed endpoints using API Gateway and monitored usage with AWS CloudWatch.
- A Python Flask API to convert data-sets to time-series format deployed on a Heroku server with a CI/CD pipeline using Github Actions.

Covid Detection | Web and Mobile

- A web application to predict Covid-19 from X-rays using a Convolutional Neural Network with an accuracy of 90 percent, hosted on a Flask server backed by a MySQL database and a JavaScript front-end.
- A cross-platform mobile app to host and serve customized machine learning models using React Native, Flask and Firebase Cloud.