Ahmar Suhail

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EXPERIENCE

University of California, Irvine — *Research Associate*

January 2019 - PRESENT

Technologies used – Java, Python, Node.js, Kubernetes, Docker, Linux Traffic Control, React

- Developed a framework for providing network QoS for IoT traffic.

- Developed data publishers, subscribers, and middleware to calculate priorities and dropping rates for each subscriber.

- Used Kubernetes to create a cluster of publishers, subscribers.

- Developed a microservice to implement traffic control policies on each container's network interface using Linux's 'tc' module.

- Developed front-end using react for running and viewing experimental results.

Project Github link: https://github.com/ahmarsuhail/kubedex

NIIT Technologies, Noida, India — *Sr. Full-Stack Developer, IoT*

January 2018 - September 2019

Technologies used – Node.js, React, Azure

- Led application development for two IoT solutions: Vehicle Fleet Management and Cargo Monitoring.

- Developed backend API's using Node.js, and a real time updating dashboard using React.

- Developed data ingestion platform using Azure's IoT Hub.

- Optimized architecture on various points, focussing particularly on data optimization and data management cycles.

NIIT Technologies, Noida, India — *Full-Stack Developer, British Airways*

July 2016 - December 2017

Technologies used – Java Spring MVC, AngularJS, SCSS

SKILLS

Languages: Javascript, Java, C/C++, Python

Backend: Node.js, Java Spring MVC

Frontend: React, Angular HTML, CSS, Bootstrap, Material

DevOps: Docker, Kubernetes

Cloud: AWS, Azure

CERTIFICATIONS

AWS Certified Developer – Associate

- Worked on the design and development of phase two of the British Airways Beta website.

- Led development for functionality to allow users to purchase excess baggage.

- Developed an application to generate boilerplate code for adapter microservices.

EDUCATION

University of California, Irvine — *Masters, Computer Science*
September 2018 - June 2019

NIT, Allahabad — *B–Tech, Computer Science*
July 2012 - May 2016

PROJECTS

MAC protocols for IoT — 11/2018 – 03/2019

- Researched different MAC protocols for densely populated IoT networks

- Implemented and looked at enhancing protocols using the Komondor simulator

Light Swarm IoT System — 09/2018 – 12/2018

- Developed distributed system of ESP8266 devices, with RaspberryPi as hub

- Used NodeRed for building a flow for notification services, and sending data to Google Firebase

Smart Parking — 05/2015 – 12/2015

- Designed and developed a RFID based smart parking solution

- Developed UI for parking lot map, as well as modules to allow users to register RFID tags and login