YASH SHAH

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**SUMMARY**

Aspiring software developer seeking full-time opportunities in the domain of cloud-based software development.

**EDUCATION**

**Master of Science** in Computer Engineering, Arizona State University  *May ‘19*

**Bachelor of Engineering** in Electrical Engineering, Maharaja Sayajirao University *June ‘17*

**TECHNICAL SKILLS**

**Languages:**- Python, Java, C, Bash Scripting, SQL.

**Operating Systems:-** Linux, Zephyr RTOS, MacOS, Windows.

**Frameworks:-** Express**,** Spring, Apache Tomcat, Docker, Agile, REST APIs, XML, Tensorflow, VMWare.

**Familiar with:-** Microservices (SOAP, REST), Basic TCP/IP (DNS, Subnetting), OAuth, JUnit.

**Tools:-** Github, AWS EC2, Kubernetes, Google Compute Engine, App Engine, MongoDB, Cloud PubSub, MATLAB.

**TECHNICAL PROJECTS**

#### **Cloud App for Object Detection of Video Streams** *Feb ‘19 -Mar ‘19*

* Created a Flask-based Python Web Application which would handle multiple requests from the user.
* Fetch video stream from URL upon user’s request and store the log in MongoDB.
* Implemented a controller module which spins at most 20 AWS EC2 instances based on the user’s requests.
* Demonstrated load balancing and autoscaling of the EC2 instances by scaling up/ down based on need.
* Processed requests using AWS SQS and stored the object detection results in AWS’s S3 buckets.

**Stock Price Trend Prediction Using Sentiment Analysis of Online News Headlines** *Oct ’18-Dec ‘18*

* Developed Python Code for retrieving news headlines from Reddit and Microsoft stock prices for 10 years.
* Integrated SentimentIntensityAnalyzer to output Sentiment Polarity Scores based on the Vader lexicon.
* Developed Python code to implement MLP and Random Forests to predict the stock price trends.

**Thread Programming and Device Driver Development in Zephyr RTOS**  *Mar ‘18- May ‘18*

* Developed a distance sensor driver for collecting the distances (HC-SR04 ultrasonic sensor) and developed a I2C based EEPROM driver in Zephyr.
* Maintained a multithreaded C programming environment for concurrent data collection and recording to the EEPROM.

**Augmented Reality Framework Library**   *Oct ‘18- Dec ‘18*

* Built a Java Application which can perform pose estimation of objects using OpenCV.
* Implemented a virtual camera which would capture frames and feed it to the pose estimation.

**EXPERIENCE**

**Google Cloud Platform Student Innovator, Google (via Vaco)** *Nov ‘17-May ‘19*

* Worked closely with the Google Cloud Platform teams to be the lead on campus.
* Organized trainings on Google Cloud Platform products such as Kubernetes Engine and Google Cloud APIs.
* Implemented demo projects using Google App Engine, Kubernetes Engine and Cloud Pub/Sub.

**Summer Intern, Reliance Industries Limited**  *June ‘16-July ‘16*

* Responsible for testing and debugging around 50 microprocessor relays employed in the captive plant.
* Worked close quarters with the electrical engineers to garner knowledge of the layout of the power plant.

**CERTIFICATIONS**

* Google Cloud Platform Fundamentals: Core Infrastructure (Coursera) *No Expiration Date*
* Essential Cloud Infrastructure: Core Services (Coursera)  *No Expiration Date*
* Elastic Cloud Infrastructure: Scaling and Automation (Coursera) *No Expiration Date*

#### **LEADERSHIP AND EXTRACURRICULARS**

**Volunteer, Arizona Mentor Society**  *Aug ‘17- Feb ‘18*

* Weekly mentored the fifth grade students of Thew Elementary and provided them help with their classwork.

**Student Verification Supervisor, ASU Admission Services**  *Dec ‘17- Sep ‘18*

* Managed and supervised over 50 students on how to data enter transcript information into PeopleSoft.
* Work close quarters with the manager to assist her in the trainin­­­­g of the new student workers.