Muhammad
Hamza Javed

Software Engineer (Python)

aws ✅ CERTIFIED

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Technical Skills

- Python Backend | Flask | AWS Chalice
- Machine Learning | Deep Learning
- Computer Vision | Object Detection
- Activity Recognition CNN + RNN
- SQLAlchemy Core | PostgreSQL | NoSQL
- AWS Lambda | API Gateway | AWS RDS
- AWS EC2 | S3 | EBS | DynamoDB

Tools

- Visual Studi Code,
- PyCharm, Jupyter,.
- PgAdmin4, SQL WorkBench
- Jira, Trello

Awards & Recognitions

Scholarship Holder @GC University
Best mobile app award @SoftExpo
1st Runner-up at Startup Weekend, LUMS
PTA Nation Mobile App Awards (**winner**)
Shortlisted | LUMS Centre of Entrepreneurship
Pitched @ Plan9 Incubation launchpad
Directed a team in ACM's National Event

Highlights

- More than two years of developing & maintaining production projects in **Python**
- Author of "Getting Started with TensorFlow 2.0" (course) @Packt Publishing
- Author of "OpenCV Recipes" (course) @Packt Publishing
- AWS Certified **Solutions Architect** (Associate)
- AWS Certified **Developer** (Associate)
- Hands-on experience with Scikit-Learn | Keras
- Five Internships during Graduation

Work History

Senior Software Engineer @NorthBay Solutions	**1 Year - Continued)**
Software Engineer ML/DL @FiveRivers Technologies	(1 Year 3 Months - 2018)
Software Engineer (**Intern**) @Smart Devices, PlanX – PITB	(04 Months - 2016)
Software Engineer (**Intern**) @Bramerz	(01 Month - 2015)
Software Engineer (**Intern**) @OneByte, Private Limited.	(02 Months - 2015)
IT and Business (**Intern**) @Ovex Technologies deployed by PSEB	(04 Months - 2013)

Academic Background

BS Computer Science	GC University, Lahore.	2013 - 2017
Python Specialization	Coursera	University of Michigan	2017
Deep Learning Specialization	Coursera	Andrew Ng	2018

AWS | Python | Machine Learning Projects

1) Video Streaming Platform | AWS Serverless Architecture

Tools: Python, PostgreSQL, Boto3, Chalice, EC2, S3, RDS, CloudFront, MediaConvert
Description: Worked on AWS Services including API Gateway, Lambda, DynamoDB, RDS, Media Services, EC2, EBS, IAM, S3, and Cognito. The core responsibilities involved developing backend API to be deployed on server-less platform. Making sure the smooth integration with other backend APIs and AWS services.

2) Autonomous Drone Tracking System | Tensorflow

Tools: Python, TensorFlow CNN, OpenCV, Kinect, ZED stereo camera, and NVIDIA Jetson TX2.
Description: CNN based quad-copter detection system calibrated with custom-made tilt-pan motors for detecting drone and keeping it centered until it exits the field of view. The model detects drone and differentiates with birds with high accuracy.

3) Parcel Detection & Tracking System | Tensorflow

Tools: Python, TensorFlow CNN, OpenCV, Kinect and ZED stereo camera deployed on NVIDIA Jetson TX2.
Description: Deep learning / computer vision based parcel detection, scanning and tracking system for one of the biggest logistics company.

4) Groupie App | Mobile & Backend

Tools: Android native, MongoDB, Cloudinary, HeroKu, NodeJS, MQTT, Firebase
Social networking android app that lets you take remote group-photos. 1st Runner-up Startup Weekend LUMS | Featured in TechJuice, City42 & DAWN | Shortlisted for LUMS Center of Entrepreneurship | Best Mobile App award SoftExpo.

Mobile Apps (View all **14** apps https://goo.gl/f77nSU)

Smart Devices - Home Automation **[PTA National Mobile App Award Winner]**
Groupie App - Social Networking App **[Best Mobile App Award Winner @SoftExpo]**