G-11/3, Islamabad, Pakistan

Zaid Afzal

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EMPLOYMENT

Full Stack Developer (Python Django/Flask, NodeJS, ReactJS) & DevOps Engineer   **Self-Employed @ Upwork (Remote Position)**   **March 2019 - Present**

Producing maintainable, thoroughly-tested code, up-to-date with latest industry standards
- Back-End web development using Python Flask/Django, NodeJS using MySQL/PostgreSQL, MongoDB.
- API design, development & documentation via Flask micro services and Django REST Framework.
- Scrapping websites and web application for data mining purposes.
- Test-Driven development.
- Developing Front-End via HTML5, Bootstrap 4, JavaScript(ReactJS)/jQuery.

- Working with an Australian startup "Pop Up Wifi LLC" in building their Access Points and server infrastructure.
- Developed an eCommerce web application utilizing Python/Django, MySQL and AWS.
- Developed a casino event prediction-er web application utilizing Python (Pandas, Sickit Learn, Django), PostgreSQL and AWS EC2 instance.
- Worked on Amazon product reviews classification utilizing Python's Pandas, Scrapy and performed various NLP techniques as per client's requirements.

Platform Apps Developer   **Automotive Artificial Intelligence**   **March 2018 - March 2019**

Virtual Simulation for Self Driving Vehicles (Python)
- Worked on virtual simulation's driving, map and traffic maintainer.
- Implemented Rule Catalog for German roads as a separate gRPC service.
- Reduced response time in each frame to compute vehicle perception and rules violation.
- Redesigned modules for simulation and introduced unit test cases for different services.

Software Engineer   **SlashNext**   **Sep 2017 – Feb 2018**

Network Security, Malware Analysis, Reverse Engineering (Python, Objective-C, Bash)
- Worked in cyber security team to transform malware researcher's expertise to machine learning/ deep learning models to filter and classify network packets (Benign/Malicious) on Access Point level.
- Created scripts to extract process level information to make important features to train on machine learning algorithms.
- Built and automated virtual machine for Mac OSX, Linux, Windows, Android OS to run and analyse latest malwares.

Software Developer Intern   **Bentley Systems**   **June 2016 – Aug 2016**

Xamarin.Forms, Scrum
- Built working prototype to shift company's internal software system UI named DGnDB to Xamarin.Forms for cross platform support (Android, Windows, iOS).

EDUCATION

Islamabad, Pakistan   **FAST - NUCES**   **2013 – 2017**
- B.S in Computer Science
- Coursework: Data Structures & Algorithms, Web Development, Network & Data Security, Data Mining & Machine Learning

CERTIFICATIONS

Coursera.org   **SUNY - University of Buffalo**   **Feb 2019 (In Progress)**

- Blockchain (specialization)
- Blockchain Basics, Smart Contracts, Decentralized Applications (Dapps), Blockchain Platforms

TECHNICAL EXPERIENCE

Projects
- **Algorithmic Trading** (Sep 2016 - May 2017): Final Year Project
  Developed intra-day web based trading platform using historical records of New York stock exchange and trained machine learning algorithms (Random Forest, SVM) to predict price movement for top 5 popular stocks. (Python, Django, AngularJS)

- **TOR Implementation** (Apr 2017 - May 2017): Implemented 'The Onion Routing' protocol on distributed nodes with encrypted and layered communication. (Golang)
- **Messenger** (Nov 2015 - Dec 2015) Developed a messenger combining functionality of multi-lingual auto translated chat, audio and video calling. (Java, JavaFX, JSP, JSF)
- **Pokemon** (Apr 2014 - May 2014): Developed pokemon game in 2nd semester of undergrad degree utilizing basic OOP concepts. (C++, OpenGL)

Languages and Technologies
- (Proficient) Python, Pandas, Flask, Django, C++, MySQL, MongoDB, Git, HMTL, CSS/Bootstrap, JavaScript, Linux(Ubuntu), Jira, PyCharm, Scrapy
- (Familiar) AngularJS, NodeJS, Bash, Golang, KnockoutJS, Docker, PostgreSQL