Piyush Jha

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Work Experience

Global Market Access Infrastructure Intern, *June 2018 – August 2018*
Société Générale Corporate and Investment Banking , Hong Kong

- **Deployed and developed** on a new **Java and ELK stack** based monitoring software to improve the infrastructure monitoring for bank's market access and connectivity
- **Analyzed the infrastructure's Big Data** to work on batch runtime prediction by creating **machine learning models** for time series analysis using ARIMA model and for log analysis using hidden markov model and KNN classifiers
- **Created a distributed database** across 5 Unix servers on a **production scale** to receive and analyze monitoring data from all the market access and connectivity programs for large scale monitoring
- **Developed several APIs in python** for integration of several applications and monitoring tools along with the distributed database using **RESTful protocols** and worked extensively with **bash/shell** on all the Unix servers
- **Presented** the new monitoring application to several market access development and support teams and conducted UAT to complete setup and deployment in production
- **Enhanced** the efficiency of monitoring by providing the ability to monitor batches, servers and applications more comprehensively with new performance parameters and improvised alerting on issues

Student Partner, *November 2017 – June 2018*
Microsoft Student Partners Program , Microsoft Hong Kong

- **Developing cloud applications** based on **Microsoft Azure** by learning from Microsoft workshops organised by Microsoft professionals
- **Gained experience** with Azure virtual machines, machine learning studios, app services and Blockchain as a service on Azure to create diverse range of cloud applications
- **Leader for Microsoft Imagine Hack 2018 organizing committee**, successfully organized the hackathon with over 50 participants by coordinating with event sponsors and distributing tasks among other student partners
- **Took a hands-on technical workshop** on Azure cloud fundamentals for City University LCAP (Learn Coding and Prototyping) program
- **Awarded the highest level of achievement** (300/300) on program completion and was **nominated to represent Microsoft Hong Kong** in MSP Asia Summit in Taiwan

Projects   *https://github.com/piy0999*

Team Leader and Software Developer, *January 2018 – present*
Credit Sense   https://github.com/piy0999/CreditSense

- **Developed an intelligent Decentralized Credit Scoring platform** using Multichain Blockchain backend with Deep Learning to calculate comprehensive credit scores based on more than 75 parameters about a single applicant
- **Received a HKD100,000 seed fund** for 6 month development of the project, coordinating with mentors from lending services industry to deploy the first production level application of the system
- **Developed the backend of the system** by creating the **blockchain system** using Multichain and connections among various system peripherals and the frontend using python RESTful APIs

Backend Developer, *October 2017 – December 2017*
CollabCoin   https://github.com/WaqasAliAbbasi/CollabCoin

- **Developed a Decentralized Fund Management and portfolio creation Platform** using BigchainDB Blockchain and Python RESTful APIs along with Meteor based frontend
- **Developed python APIs** to streamline connections between the blockchain, the frontend and market connection services for efficient executions of stock purchase orders on the platform

Education

Penultimate Year, Bachelor of Engineering in Computer Science Minor in Finance
The University of Hong Kong, *September 2016 – June 2020*
Key courses: Data Structures and Algorithm, Software Engineering, Artificial Intelligence, Microeconomics & Corporate Finance

Vancouver Summer Program (Electrical and Computer Engineering Department)
The University of British Columbia, *July 2017 – August 2017*
Key courses: Web Development & Algorithms

Skills

Programming Languages & Core: Java, Python, JavaScript, C/C++, Shell (Scripting), Linux/Unix
Blockchain: Ethereum, Solidity, Multichain, BigChainDB
Web/App Development & Databases: React.js, React Native, Node.js, jQuery, Django & MySQL, MongoDB, Elasticsearch
Machine Learning: Time Series Analysis, ARIMA models, Hidden Markov Models, KNN classifiers
Cloud Fundamentals: Microsoft Azure, app services, blockchain as a service, virtual machines, ML studios

Awards & Scholarships

Cyberport Creative Micro Fund: Seed fund (HKD 100,000) for development of the project Credit Sense
Microsoft Imagine Cup: 2nd Position in Hong Kong National Finals (HKD 2000) & Most Innovative Award
Shanghai Commercial Bank Hackathon: 1st Position in Hong Kong (HKD 20000) & 2nd Position in China Finals (HKD 65000)
Chengdu 80 Fintech Competition: 2nd Position (HKD 35000) while representing The University of Hong Kong among teams from other top 8 universities like NUS, UCB, Georgia Tech
Microsoft Imagine Hack: 1st Position (HKD 7000)
Credit Suisse Code IT Coding Challenge: 3rd Position (HKD 5000)
University of Hong Kong Entrance Scholarship: Full tuition plus accommodation and living allowance scholarship for entire study duration (HKD 186,000 per year)
HKSAR Government Scholarship, Reaching Out Award: Received (HKD 10000) for UBC Vancouver Summer Program
High School Academic Excellence Scholarship: Received tuition grant for exceptional academic performance in High School