Priyank Arora

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Work Experience

Software Engineer TeamF1 Networks Pvt. Ltd., Hyderabad, India Feb 2015 – Dec 2016
- Successfully delivered over 40 firmware with new software feature and bug fixes to customers.
- Familiar with Layer 3/4/5 network protocols such as IPv4/IPv6, IPsec, TCP/UDP, SCTP, PAP, L2TP and services such as LAN, WLAN, FTP, SMTP, VLAN, DHCP, DDNS.
- Developed Language Localization expanding device reach to 1 Billion new customers, provided code for firmware upgrade over HTTP
- Part of the Developer team in Software Define Network project, contributed by adding Southbound APIs for D-Link wireless controller devices following OpenFlow RFC-7426 in C++ language.

Contract Engineer Xilinx India Pvt. Ltd., Hyderabad, India Aug 2014 – Feb 2015
- Enhancing Xilinx SoC PCIe device driver code from NWL, demonstrated improved performance by enabling PCIe Root Complex capability of Zynq FPGA IP, DMA channel capability over PCIe root complex to allow the peripheral's memory access request from host.

Software Intern | Xilinx India Pvt. Ltd., Hyderabad, India Aug 2013 – Aug 2014
- Performed QEMU Testing, developing application layer performance software for logging and reporting over internet, advance Linux Kernel troubleshooting, designing Linux device-tree, bootloader configurations, packaging BSP using proprietary SDK for Zynq SoC chips.
- Enhanced the Xilinx's Linux code base by integrating Open Source DRM/KMS framework into Kernel.

Projects

Claim Portal | Python, MySQL, JavaScript | A web-based platform for monitoring, searching, checking, and analyzing factual claims on Twitter from the US politician
- Developed a web-portal to showcase factual content within US politician's tweets. By using ClaimBuster API to rank tweets and open sesame to classify them into categories
- Designed Web scraping scripts to collect 200 politician's twitter account and details.
  Script that periodically collect tweets and get a ClaimBuster score and apply open sesame trained model to get text category.
- Added Interactive JavaScript Visualization and handled backend support for the web-site, streamlined the data from Twitter to MySQL.
  Demo: https://idir.uta.edu/claimportal/echarts.html, Paper: https://www.aclweb.org/anthology/P19-3026.pdf

Cloud Development | IBM Bluemix, GCP, AWS, Azure, Python, JavaScript
- Developed web-based Students Record Management (SRM) system with help of IBM Cloud Foundry to host application. IBM DB service to keeping students records. IBM Cloud Object Storage service for storing student profile pictures image.
- Users of this Application can add/remove/edit student records and run search queries over the database.
  Link: https://github.com/pyk18/IBM_Cloud-student_record, https://github.com/pyk18/IBM_Cloud_EarthQuick_Application
- Developed a web-based python application to apply k-mean algorithm on the Titanic passenger dataset.
- JavaScript Visualization tool, D3Js, to showcase results of queries and showcase the relation between survival vs age, gender, and fare.
- Experiment with Redis server to improve performance of standard web-application. Applying load based Autoscaling of application instance.
- Website that run database queries on Earthquake dataset and showed performance improvement of up to 60% with the Redis server on queries. With the help of JMeter load test tool demonstrated the configuration to adjust number of cloud application instances.
  Link: https://github.com/pyk18/Azure_EqData-Redis

MAC Facility Booking | Developed Android application for MAC facility reservation.
- With agile methodology of multiple iterations including project domain diagram, use case diagrams, function list, and prototyping.
- User of System can reserve, delete, and modify the reservation, facility manager controls the facility and reports any misconduct. Admin can manage these reports and user roles.
  Link: https://github.com/adityadas8888/ReserveMac/

HackUTA18 | Participated in 24-hour hackathon to develop a Bitcoin price predictor twitter bot.
- Developed a crypto currency price predictor twitter bot. With use of TweePy and Coinbase API, the application fetches the crypto-currency trends using Coinbase API, it then generats a visualization of predicted.
  Link: https://github.com/pyk18/hack-uta-2018-twitter-bot

Large Number and Matrix Multiplication | Implement large number multiplication
- Using Strassen's algorithm to multiple two large dimension matrix with large numbers and Implement Gauss's and Karatsuba's algorithm to multiply two very large number and present a performance comparison of the two algorithms.
  Link: https://github.com/pyk18/Algorithm/tree/master/DAA_MatrixNLargeNumMul

Education

Masters (M.S.) in Computer Science (CS) GPA 3.74
University of Texas at Arlington, Arlington, Texas Aug 2017 – Dec 2019
Bachelors (B. Tech.) in Electronics and Communication (ECE) 78.12%
Maharshi Dayanand University, Rohtak, India Aug 2008 – May 2012

Skills

Languages	Python3, C/C++, Java, SQL, JavaScript, HTML, Shell Scripting, Node.js, Angular JS
Technologies	Git, NPM, Hadoop, Apache Spark, Maven, REST Services, Kubernetes, Docker
Database	MySQL, SQLite3, PostgreSQL, MongoDB, Redis, Memcache, No-SQL
Tools	Jupyter Notebook, Numpy, Pandas, Eclipse, Testing