Prashant Tiwari

Email: prashanttiwari247@gmail.com | Skype: prashanttiwari247

Summary: Having 7 years of experience in Financial Services and 4 years of experience in IOT domain, I am curios of everything and extremely flexible and fast learner. I have worked closely with internal and external stake holders like exchanges, trading desks, and business units. I have worked in front office teams handling low-latency trading applications as well has start-ups offering bespoke solutions. I am also active member of various meetups in and around London and love to contribute code, write blogs and give talks on topics of interest.

Visa Status: UK Tier 1 (Exceptional Talent) Visa.

Dec 2016 onwards: Powervault: Lead Backend developer
At Powervault, I am responsible for managing all Python based components deployed in the cloud. I am also leading the effort on the upcoming flagship product of the company.
- Design and implement backend IOT infrastructure that can scale horizontally.
- Facilitate tools and software required for data analysis by other teams.
- Leading a team of 3 python developers.

30 Nov 2015 – 30 Oct 2016: Edgefolio: Computer Scientist/ Sr. Backend Python Developer.
Edgefolio is a London based Fin-Tech Startup developing solutions for finance industry. It's a Python shop currently 10 members strong that works on technical stack of Django, REST, Pandas and bit of data science
- Design, enhance and maintain data acquisition layer for flagship project.
- Responsible for comprehensive test coverage and doing TDD where possible.
- Perform root cause analysis for critical production issues.
- Working on creating useful incites from user analytics.
- Development of modules using Django and Rest framework and Pandas.

15 Sep 2015– 27 Nov 2015: Freelancer: Worked on small scale freelancing projects advertised at Freelancer.com
Currently working as Freelancer doing small and exciting projects like:
- Single page Flask application that uses Numpy and Scipy in background to parse OMR sheets (answer papers).
- Indian price comparison website using Django REST framework and web scraping using Scrapy crawlers under the hood.

12 Jan 2015 – 11 Sep 2015: Team Lead at Persistent: Responsible for back end python programming, I implemented helped implement an ambitious project to automate all terminal side testing across the globe. This role involved the following:
- Designing and enhancement of python based test automation framework.
- Helped evolve a POC project into a full-fledged functional product in less than 6 months.
- Wrote server code to handle TCP/IP communication with thousands of Point of Sales devices.
- Pythonic, idiomatic, DRY code to efficiency handle large data streams of logs coming in from thousands of terminals (Point of Sales devices) simultaneously using socket programming.
- Proposing end to end solutions for new test automation.
- Implemented Django REST Framework to manage Users and Nodes.
- Wrote SOAP Clients to get information of point of sales devices.

- Helped evolve a POC project into a full-fledged functional product in less than 6 months.
- Worked on Multiprocessing, multithreading, socket programming to implement framework.
- Rabidly including teams and expanding test coverage within the scope of project.
- Involved in ad hoc trainings and mentoring of juniors and colleagues new to Python.
- Involved in entire lifecycle of the product development.

Mar 2011 – Jan 2015: TCS Consultant at Morgan Stanley: Responsible for maintaining $2m+ worth of agency flow from algorithmic trading spread across almost all European destinations. Part of European team that specializes in providing high speed algorithmic trading platform. Perl/Python/Shell Integration specialist responsible for client on-boarding, continues integration environment, and all Perl/ **Python development.**
- Worked on large data sets for parsing large packet capture files to convert to human readable files and tracing order flows.
- Worked with FIX libraries for creating a order flow tool from regular log files.
- Sole maintainer for Python based object oriented library for parsing configuration files used by various reporting and risk identification tools and for process management.
- Worked on Python scripts accessing Jira API and Perforce to automate Turnover generation.
- Automation of daily tasks like filing change requests from Jira information, morning checks and RFB reports, EOD reports.
- Worked on daily MarketData generation scripts for various markets depending on product database and symbology.
- Recognized to have raised the bar for technical innovation by delivering highly scalable intelligent and automated configuration data processing system built using Object Oriented Python.
- Reviewed and re-factored existing Perl monitoring scripts to reduce 95% of daily automated emails to support groups and helping them better support Speedway.

Nov 2009 to Feb 2011: TCS Consultant at Pune for Morgan Stanley account: Responsible for all automated testing for RDDS MS risk assessment engine.
- As a Perl developer, I automated testing for risk assessment engine used by Morgan Stanley.

Nov 2006 to Nov 2009: Core team member at Merce Technologies Pvt Ltd. :
- Developed Perl CGI applications for various interfaces and screens for Merce's flagship project.
- Developed, tested and deployed Perl data acquisition application at all 5 Zodiac factories spread across India as a individual contributor.
- Worked on a wide range of various projects involving Vmware set-up, SAN Set-up, data recovery, Java applications, deploying Merce on client locations and managing Unix to Windows migrations.
- Got promoted from Associate to SSE reporting directly to MD in 2.5 years.
- Managed windows to Unix migration for Zodiac across all factories and head office in record time of 2 months.
- Worked on socket programming in Perl to communication to terminals.

Certificates
- Endorsed by 'Tech City UK' as 'Exceptional Promise' for Tier 1 (Exceptional Talent) visa.
- Cronwall Insights 'Understanding GB Energy Markets' training.
- SCJP (Sun Certified Java Programmer for version 1.4) 2004.
- edX Verified Certificate for Introduction to Python for Data Science
- Using Python to Access Web Data by Coursera

Bachelor of engineering in electrical and electronics 2006 Rajiv Gandhi Technical University.
Specialities: Python, Perl, Jenkins, Git, Jira, socket programming, shell scripting, FIX protocol, Native exchange protocols, application support, RCA, system administration, Unix, testing, Sybase, Mysql, Postgres, Autosys, Front office, Low latency application support.