Tushar Teji

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EDUCATION

Master, Electrical & Computer Engineering — Illinois Institute of Technology, Chicago, IL — ***May 2018***
B.E., Electronics & Comm. Engineering — Panjab University, Chandigarh, India — ***May 2011***

TECHNICAL SKILLS

Programming: Python, Perl, C/C++, Bash, MATLAB, SQL, HTML, CSS, Visual Basic, Verilog, and VHDL
Python Tools: *Libraries* - TensorFlow, OpenCV, SciPy, NumPy, Pandas, etc.; *Web Frameworks* - Django, Flask
Testing Tools: Functional Testing, Behavior-driven Development, Unittest, Pytest, Robot framework, Selenium
DevOps Tools: Jenkins, Git, GitHub, JFrog Artifactory, PagerDuty, Splunk, Chef, Terraform, Docker, New Relic, & AWS
Other Tools: MySQL, GNU Octave, Visual Studio, and Microsoft Office – Word, Excel, Power Point, and Outlook
Operating Systems: Unix, Linux, and Windows

WORK EXPERIENCE

US Tech Solutions, *Python Developer* — ***February 2020 – Present***
Client: Farmers New World Life Insurance (WA, USA)

- Converted in-house Base, File and Excel utility Perl modules into Python and wrote various unit test cases to support the modules
- Worked on cleaning up the former relational tables and developed automation scripts for storing, fetching, and manipulating tables
- Reviewed and tested various Data Validation Python scripts, remodeled dependent configuration files and system modules
- Rewrote broken Python validation and comparison scripts from scratch utilizing Pandas and NumPy libraries
- Assisted teams next door on their Python projects by participating in their team meetings as the language expert
- Explained coding and designs to different levels of business in technical and non-technical manner

SystemoneX Inc., *Python Developer* — ***July 2018 – January 2020***
Clients: Capital One (TX, USA), Charter Communications (CO, USA)

- Designed, developed and maintained web-based applications to enhance the performance & reliability of currently running apps
- Involved in the development of new industry-leading products using the company's open-source based tech stack
- Created various RESTful web services with Django, MySQL, and MongoDB
- Translated and refactored various C/C++ codes into Python scripts based on metrics such as efficiency, throughput, and project
- Rewrote various bash scripts and Perl scripts into Python utilizing various modules to deliver a certain format of data
- Worked on projects involving writing and as well as reading data from CSV and excel file formats using Python
- Created Docker containers utilizing existing Linux containers & AMI's. Created Docker containers from scratch as well
- Worked on Gitlab CI and Jenkins for CI and performed various end-to-end automation for all builds and CD
- Built CI/CD Pipeline using Jenkins to retrieve the code, compile, perform tests, and push the artifacts to JFrog Artifactory
- Worked with AWS CloudFormation Templates for multiple services and centralizing it between the service | Hands-on experience in automating deployment using Cloud Formation Template, Terraform, Chef, Docker
- Worked on other AWS services like EC2, S3, ELB, Auto-scaling, ECS, Route53, VPC, CloudWatch, and Lambda

Chamberlain Group (IL, USA), *Intern - Intellectual Property Engineering* — ***June 2017 – August 2017***

- Worked on Landscape Search and White Space Analysis in the field of Garage Door Openers and associated Trainable Transceivers | Developed Patent Map on connectivity and Internet of Things (IoT)
- Utilized World-class tools and resources such as Derwent Innovation, Innography, LexisNexis TotalPatent, etc.
- Interacted with the USPTO Officials, and worked with outside Patent Attorneys on lawful matters related to Patents
- Aligned Patent activities with corporate strategy and needs | Offensive and defensive Patent strategies

LuminoGuru Pvt. Ltd. (Punjab, India), *Python Engineer* — ***November 2014 – August 2016***

- Involved in the development of various Python APIs which work both in Linux as well as Windows and maintained them using the Revision Control GIT Repository System
- Wrote queries using SQL for the manipulation of data from the database | Created Database using MySQL
- Wrote various Parsers using Python for the extraction of useful data from Design Database | Performed XML parsing using Python
- Involved in the development and maintenance of AI based ChatBot for upgrading Business quality

- Worked with Python to manipulate data for data loading and extraction utilizing various Python libraries like SciPy, NumPy and pandas for the data analysis | Python frameworks: Django, Flask

Signicent Information Solutions LLP (Chandigarh, India), *Sr. Patent Research Analyst* ***May 2013 – November 2014***

- Worked on varied technologies such as CMOS, VoIP, Reusable Launch Vehicles, MicroLEDs, IGBT, Smart Watch, Smart Glass, Airships, Ultrasound, etc. | Handled 70+ projects including but not limited to Patent drafting, Landscapes, Prior-art searches, Novelty searches, Invalidations, Infringements, FTOs, Market researches, Trademark searches, Portfolios, etc.
- Handled big team of patent experts in the Electronics/Electrical Department (as well as other departments such as Mechanical and Biomedical) | Provided trainings to teams | Administered resource allocation | Organized various meetings
- Developed various automation tools using VBA in Excel that helped reduce the task time from hours to seconds | Wrote various Macros and VB programs | Honored with "Out-of-the-Box Thinker" Award for working on such tools

PROJECTS

Alien Invasion

- Developed a version of the popular arcade game "Alien Invasion" in which a player controls 2-dimensional ship movement and fires up aliens coming from the top with the intensions of invading the territory.
- *Skills:* Python, Pygame, Unittest

Algorithms Implementation

- Developed programs to implement algorithms for solving unconstrained optimization problems
- Implemented 4 algorithms: Steepest Descent, Newton, BFGS Quasi-Newton, and Conjugate Gradient
- *Skills:* Python, SciPy, Matplotlib

Digital Logic Simulator

- Built a digital logic simulator that can simulate non-trivial digital systems including CPUs
- Simulator was designed to Simulate synchronous circuits representing FSM, which were specified in EasyVL (simplified version of Verilog), a language designed specifically for this project
- *Skills:* C++