Naman Varma

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Technical Skills

Expertise in Full stack development, AWS and devops.

Python, Django, Flask, PHP, Mysql, MongoDB, KVM Virtualization, AWS, Cloud Hosting, Celery Task Distribution, Gitlab, HTML, Javascript, Bootstrap, React JS, React Native, C#,Pandas, Numpys, Ansible.

Exposure to Financial Instruments, Risk Management, Weather Trading

Excellent Programming Aptitude, Hacker Earth Basic Programming Top 200, Data Structures Top 250 (https://www.hackerearth.com/@jackx.7591)

Audio and Video Editing, Photoshop, Blender, Pygame, Unreal Engine, Unity (https://www.youtube.com/@Jack_X075)

github: https://github.com/jack-x/, stack overflow: https://stackoverflow.com/users/3488092/jackx

Work Experience

BECIL India, Hack-Elite - *Full Stack Development, Devops and Cybersecurity Team Lead*

July 2024 - Present

Web based Administrative Panel Development and cloud deployment

Python, Flask, PHP, Mongodb , Bootstrap, Javascript, Django, React JS, MySql, Gitlab, Apach2, KVM management, AWS, VPS hosting

- Solutions Architect leading a team of 6 on updating legacy projects and developing new products
- Built an in-house administration panel to connect and control android apps across multiple users. Brainstormed the entire architecture, encrypted communication methods and data storage from scratch. Used flask for the api and admin panel website. Used encryption and url obfuscation for additional security. UI rendering using Bootstrap, JQuery and native Javascript. Database maintained in MongoDB.
- Data Collection website page generator. An administration panel that gave users the ability to generate url endpoints that point to specific websites, while maintaining tight control on its access, availability and data collection abilities. Added a unique feature to fully customize the data collection logic as per the requirements. Implemented security features like IP whitelisting, Reverse Proxy Server hops, javascript obfuscation.
- Documentation and deployment of third party PHP based applications on various cloud servers. Added several modifications, new features and communication pipeline.

- Developed a ReactJS and Flask based id verification infrastructure for use in whitelisting/blacklisting of various ID-Cards among various Indian Airports.
- Updated, refactored and deployed several legacy systems on new servers
- Infrastructure setup and deployment, including gitlab, mattermost and taiga. Key individual involved in administration of all three.

Avenues International Inc, Gurugram - *Full Stack Development, India Team Lead*

Client: U.S. News

October 2021 - June 2024

Python, Django, Python2.7, React JS, AWS management, MYSQL, Jquery, Gitlab, React-Bootstrap

- Lead full stack developer working from India
- Primary developer involved with full code refactorization and restructuring to adopt modern django app structure
- Main resource on internal product search engine overhaul. Key resource for its upgrade, maintenance and bug fixing.
- Ticket Lead for several tickets assigned to both offsite and onsite members.
- Primary developer working on backend data vendor process that powered all the data visible on the website.
- Supervised work for all Indian contractors, giving feedback and suggesting improvements with examples
- Responsible for versioning and update of entire backend to newer Django Versions, django 2 to django 3, and then further from django 3 to django 4.
- Worked on several tickets for changes directly visible on the website
- Improved performance of backend services, python cron processes, database interactions
- Completed and deployed high priority tickets left incomplete by senior team members that had moved out
- Initiated several code improvement tickets myself for better refactoring of code, structure and performance improvements
- Investigated, Tracked and solved incredibly peculiar bugs that escaped the eyes of the more experienced dev
- Key member of team refactoring code of the entire app to adopt modern django app structure. Extensively used git, including reverts, cherry picking, merges, blame, git-activity, commit history etc etc etc
- Member of the technical debt cleaning team, responsible for maintaining and updating code
- Managed several merge conflicts between developers, including instances when team was assigned high priority tickets with new product deliverables
- Added furious documentation for all tasks I worked on, and more, in order to help out teammates and future developers. Author of several documents on confluence.

Aspirify Infotech Ltd, Delhi- *Senior Python Developer and Deployment Engineer.*

October 2020 - September 2021

Security systems project for external client

Python3, Flask, Mongodb, Libvirt, WCF windows services, Celery Task Distribution, RabbitMq, Ansible Automation

- Lead a team of 4 people, overseeing over 500 virtual machines.
- Mentored and provided feedback to several new joinees and other team members on several assigned tasks
- Primary task was to create communication frameworks and automated system handling between various client modules.
- Built over 10 different flask apis for communication between modules
- Designed and integrated more than 8 different mongo databases with requirement logic
- Primary developer for framework to automate virtual machine creation and destruction as per architectural demands. Integrated kvm virtualizations with Python subprocesses, threads and mongo databases.
- Built and added a custom load setting to the VM automation tool. On modification of this setting, the process would automatically adjust the load on the bare metal machine, without any manual restart or break in process. Also added an api that could update this setting across bare metal base machines. This was used extensively when adjusting load and testing out bare metals machines.
- Used celery task distribution library for interfacing with various client modules. Implemented different celery concepts like multiple queues, soft time limit, hard stop etc. The entire architecture was based on master slave relationships.
- Wrote several ansible-playbooks to rapidly deploy changes in various machines with minimal system downtime.
- Primary Testing lead for several modules. Wrote several test cases in pytest to ensure robust and error free codebase
- Took over, completed and deployed an overhaul of the top level Task Distribution framework, implementing a design document provided by senior team leads, involving flask, rabbitmq and PostgreSQL
- Explored and implemented several libraries for encryption and communication like Cryptography and AES
- Used JWT and hash checks to ensure data integrity across systems
- High quality coding. Code went through multiple iterations for each module to reduce footprint and increase durability.
- Full production and testing environment setup, monitoring and development.

Publicis.Sapient, Gurugram - *Associate Developer Level 2*

July 2014 - September 2020

Portfolio Risk Management backend support and development

- Backend support and development in various languages like Python, Perl, Unix shell scripts.

- Use of various frameworks like Pandas and Numpy, Customized XML parsing, CQL in house database tool
- Performed maintenance, changes, and upgrade of various legacy code written in python 2.7 and python 3.4
- Transition of legacy code in perl and python 2.7 to Python 3.4
- Automated log processing and monitoring, with email alerts, using python and regular expressions.
- Data processing with pandas and numpy to create factor shocks reconciliation reports.
- Maintenance of inhouse database tool, CQL - Command Query Language (similar in syntax to SQL)
- Deployment of tools and pipeline for further external clients

Speedwell Weather Trading Automation

- Python, C#, SQL server and speedwell weather services tool.
- Solo python developer in a team of 4.
- Handled the entire python ecosystem of the project. Onsite deployment in Dusseldorf, Germany for 7 months.
- Maintenance and support for Speedwell Weather Trading GUI using SQL, C#, windows services.
- Wrote several SQL server views and cursors etc.
- Graphing and presentation of data using matplotlib and python3

Back office Clearing Testing Automation

- GUI testing automation project
- Technologies Used : C#, WCF, WPF and Ranorex automation libraries.
- Purpose of project was to automate GUI testing using C# and Ranorex libraries by parsing and processing custom in house script sequence.
- GUI manipulation was done using libraries provided by Ranorex, implemented in C# code.
- Automated result generation after processing of several scripts and HTML formatted email of results.
- Smart processing to accommodate conditional test scripts. Scripts had customized and also conditional inputs which were needed to be handled in code.

Personal Projects

- Javascript Weather App
- Sudoku and Snake games using Pygame
- Sudoku website using django backend
- Cyber pirates website for a College Event. Written in Php backend with a mysql database.

Education

B.E 2014, Computer Science, Thapar University, Patiala

SSC 2005, St. Francis' College, Lucknow

HSSC 2007, St. Francis' College, Lucknow