SIMRAT PAL SINGH SATIA

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Education

Netaji Subhas Institute of Technology (NSIT), University of Delhi

New Delhi, India

Bachelor of Engineering (First Class) in Computer Engineering, GPA: 8.1/10

Aug 2015 - Aug 2019

- Relevant Coursework: Data Structures and Algorithms, Artificial intelligence, Operating systems, Database systems, Networking systems, Calculus, Linear Algebra.
- Research and Patent Award with grant of Rs 10k to distinguished researchers

Experience

Microsoft India Development Center (IDC)

Hyderabad, India

Software Engineer II (Level: 62) - Azure Linux Team

Aug 2022 - Present

Software Engineer I (Level: 59-60), II (Level: 61)

Jul 2019 - Aug 2022

RedHat on Azure (1M+ VM Cores on Azure / Red Hat Update Infrastructure (RHUI))

- Developed and maintained products for building Azure RedHat VM images
- Vertical scaling of infrastructure, leading to 950% improvement in repository operations, with over 60% reduction in the incident (ticket) load, saving over 1500+ hours annually
- Spearheaded the project of onboarding ARM64 SKU integrating the build pipeline and customization of image -link
- Designed and implemented extensible OS agnostic Azure Keyvault Certificate-rotation service, increasing reliability
- Mentored and onboarded an undergrad to build client package and improve monitoring

Azure Hybrid Benefit for BYOS (License Management - link)

- E2E ownership of design, scalable development of AHB in-vm service and VM extension, bug-bash/testing and customer journey/onboarding, allowing conversion from BYOS to PAYG VM model
- Collaborated with billing, commerce, CELA (Legal), Microsoft Partners (RedHat/SUSE), spearheaded partnership between 30+ stakeholders to develop and announce Global Availability (GA)

Geneva Monitoring (Cloud Service Telemetry Platform)

- Integrated all Azlinux project services with monitoring platform with insightful dashboards, monitors and alerts
- Conducted a session with 50+ engineers Azure Compute wide as SME on monitoring

UIAutomationTool (Web Experience Automation)

• E2E onwership of design and implementation of extensible automation tool offering the capability to perform e2e testing of any website's user-interface by means of test cases auto-generated using a yaml spec file and inbuilt ejs template

Load Simulation (Stress Testing and Benchmark Tool)

- Contributed to design and development for stress testing of linux VMs across CPU, Disk and Memory utilization
- Mentored undergrad intern to create wrapper and extend for AzQualify team, culminating with her PPO

Workload Builder (On-Prem Workload Migration Tool)

- Complete ownership of UX design, development and CI/CD deployment of workload builder UI on Azure Portal
- Mentored undergrad intern on UI development for Project X, culminating with his PPO from Microsoft

Awards/Recognition

- Top 4/526 in Microsoft Hackathon 2022 for Self-Serve Image Validation in Azure Quality Segment
- Microsoft Cultural Award: Customer Obsession Remove barriers to customer satisfaction
- Azlinux Security Champ Ensuring security fundamentals of service
- Microsoft Cultural Award: One Microsoft For boundary-less collaboration and contribution across teams

Publications

- Aggarwal, S., Gupta, S., Satia, S. P. S., Saluja, S., Gambhir, V. (2022). Predict Smartphone Addiction Through Usage Pattern of Installed Android Applications, derive Correlations with Addiction. Journal on Addictions, 9(1), 63-74.
- Aggarwal, S., Saluja, S., Gambhir, V., Gupta, S., Satia, S. P. S. (2020). Predicting likelihood of psychological disorders in PUBG players using supervised machine learning. Addictive behaviors, 101, 106132.
- Satia, S. P. S., Miglani, V., Gambhir, V. (2019). Teacher Attrition Prediction Model and Analysis of the Associated Factors. International Conference on Computing, Power and Communication Technologies(pp. 458-462). IEEE.

Technical Skills

Languages: Golang, C-Sharp, Python, Java, Typescript, NodeJS, Mocha, Puppeteer, Shell Scripting, Powershell, Latex Technical skills: Cloud Computing (Azure), Ansible Automation, Virtualization, Linux, Scalable web development, Agile development, AzDevops, CI/CD, Data Structures and Algorithms

Interests: Classical Singing (3 Year Prayag Certified), Guitar (ig: midnight_euphonies), Reading/Writing (Managing Editor, Alliance - NSIT's Newspaper), Theatre (Ashwamedh - DramSoc, NSIT)