AKSHAY PATIDAR

B Tech in Computer Science Engineering

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WORK EXPERIENCE

Senior Software Engineer

Enterpret   Backend, Platform

📅 Jan 2025 – Present   📍 Bangalore, India

- Optimize large-scale AI inference infrastructure to improve latency, throughput, and cost efficiency
- Contributing to architecture and efficiency improvements in a distributed knowledge graph platform supporting real-time query & inference workloads

Software Engineer III

Dream11   Backend, Platform

📅 July 2024 – Jan 2026   📍 Mumbai, India

- Designed and implemented an end-to-end application deployment system on AWS EC2, including AMI creation, supporting advanced rollout strategies including blue-green, canary, in-place for zero-downtime releases
- Architected a multi-cluster deployment platform using karmada on Google Kubernetes Engine, leveraging existing and custom Kubernetes controllers to automate and standardize application lifecycle management
- Developed an event-driven autoscaling system that proactively scales microservices based on concurrency predictions, reducing resource costs
- Spearheading efforts to open-source an internal deployment tool, enabling external developers to leverage enterprise-grade deployment capabilities

Software Engineer II

Dream11   Backend, Platform

📅 July 2022 – July 2024   📍 Mumbai, India

- Architected and developed a multi-tenant, cloud-agnostic CLI-based platform for deploying and managing applications and databases seamlessly on Kubernetes and Virtual Machines across all Dream Sports companies
- Built a Domain-Specific Language in Groovy to enable users to write custom components that can be plugged into the deployment platform
- Enhanced reliability of Dream11's deployment pipelines by designing a system handling 100% of internal service deployments
- Automated and standardized base AMI and Docker image workflows, facilitating collaborative hardening and validation by the security team

Software Engineer I

Dream11   Backend, Platform

📅 July 2020 – July 2022   📍 Mumbai, India

- Created internal framework for writing REST applications in Vert.x, including libraries for logging, end-to-end request tracing, database clients, config and secret management, integration tests, database migrations, data pipeline, etc
- Developed a microservice for personalization of matches, contests, and payment options capable of handling scale up to 10M RPM
- Setup coding standards, PR review guidelines, and created archetypes for new services & CI tools to automate these checks

SCHOLASTIC ACHIEVEMENTS

- Secured AIR 41 in JEE Advanced 2016 among 150 thousand candidates
- Secured AIR 13 in JEE Mains 2016 among over 1.3 million candidates
- Recipient of KVPY Fellowship instituted by the Department of Science and Technology, Governemnt of India
- Received certificate of merit for being in the top 0.1% students in Mathematics, AISSCE 2016
- Awarded Certificate of Merit for being in National Top 1% in NSEC, NSEP, 2016 conducted by Indian Association of Physics Teachers

ACADEMIC DETAILS

Bachelor of Technology in Computer Science Engineering

Indian Institute of Technology, Bombay

📅 2016 - 2020

CGPA : 8.99 / 10

Higher Secondary Education

Samta Shiksha Niketan, Ratlam

📅 2015 - 2016

Percentage : 98.2

TECHNICAL SKILLS

Programming Languages

Java, Groovy, Python, Golang, C/C++, Bash, Javascript, Typescript, SQL, CQL

Tools and Frameworks

Vert.x, Django, Git, Maven, Helm, Kubernetes, Terraform, Packer, Ansible, Kafka, Serverless

Datastores

MySQL, Redis, Cassandra, Aerospike, Kafka

AWS Services

EC2, VPC, Route53, RDS, Elasticache, EKS, SQS, SNS, Lambdas, Systems Manager, S3

GCP Services

VM, Network, CloudDNS, CLoudSQL, GKE, Cloud Run, Cloud Storage

PUBLICATIONS

[1] **Cycles in the Burnt Pancake Graph**
Saúl Blanco, Charles Buehrle, Akshay Patidar
Discrete Applied Mathematics Journal (2019)

[2] **On the number of pancake stacks requiring four flips to be sorted**
Saúl Blanco, Charles Buehrle, Akshay Patidar
Discrete Mathematics & Theoretical Computer Science Journal (2019)

EXTRA CURRICULARS

- Secured I^{st} runner-up position in National Level Competition of Master Mind Abacus held in Indore, M.P.
- Designed a remote-controlled bot for XLR8, a competition held by Robotics Club, IIT Bombay 2016