

# Vatsal Agrawal

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## EDUCATION

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### Indian Institute of Technology Delhi

*Master of Technology in Computer Science and Engineering; GPA: 9.125*

**GATE CSE AIR: 157**

New Delhi, India

*July 2021 – July 2023*

## SKILLS

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- **Languages:** Python, Java, C, Node.js, SQL, NoSQL
- **Cloud/Infra:** AWS, Azure, Kubernetes, Kafka, Redis
- **Tools:** Docker, Jenkins, Terraform, VMware
- **Frameworks:** Spring, Flask, React

## EXPERIENCE

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### AppDynamics (Splunk)

Software Engineer - Distributed Systems

Bengaluru, India

*Feb. 2025 – Present*

- **Critical Renewals:** Led a **3-engineer** team across 2 time zones, securing **4 multi-million-dollar** contract renewals by delivering OpenTelemetry and Authn/Authz features in the K8 VM Cluster.
- **Lossless Migration:** Designed a live, **zero-downtime 20TB+** data migration service, retiring the monolith system and cutting maintenance spend by **18%**.
- **Scalable Tracing:** Increased distributed tracing throughput **5x (40K → 200K spans/min)** and reduced **latency 14%** by migrating to stateless architecture with cache optimization.

### Software Engineer

*July 2023 – Feb. 2025*

- **Usage-Based Billing:** Drove **monetization** of TBs of observability data for enterprise customers through event-driven APIs with HA TimeScaleDB.
- **Unified Cloud-SDK:** Developed SDKs in Java, Python, and Node adopted by **5+ engineering teams**, standardizing APIs across AWS/Azure/On-Prem and unlocking seamless migration.
- **Cloud-Agnostic:** Reduced infrastructure **costs 24%** and eliminated **6+** redundant codebases by consolidating cloud-native deployments into microservices with self-managed services.
- **Reliability Enhancement:** Reduced VM image size by **36%** and resolved **42%** of customer-found defects through optimized OS/infra packaging and automated monitoring pipelines.
- **CI/CD:** Accelerated builds by **70%** and cut Dev-Cloud **costs 32%** by automating localstack-based test frameworks and parallelized VM image creation.

## ACHIEVEMENTS

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- **Recognitions:**
  - Earned **9+** internal awards at AppDynamics for critical on-time deliveries and cross-time-zone leadership.
  - Awarded **Outstanding Teaching Assistant** at IIT Delhi.
- **Industry Deployment:** Deployed a production-ready React + Flask system at AIIMS Delhi for diabetic retinopathy trial, streamlining patient data capture, fundus image uploads, and disease progression tracking for hundreds of patients
- **Research Publications:**
  - Published **NetraDeep (ACM'24)**, a hybrid deep learning + image processing model for retinal HE segmentation, achieving **93.3%** accuracy on **limited** labeled/unlabeled datasets.
  - Authored **NetraVeins (Scitepress'23)**, a hierarchical retinal vessel tree classification and ordering algorithm with MATLAB and GAN segmentation, achieving **90%+** accuracy.
- **High-Ranking Projects:** Haskell lexer/parser (1st of 158), C thread library (4th of 98), NLP-based cipher breaker (9th of 211)