

SWAPNIL SRIVASTAVA

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SUMMARY

- **13+** years of experience in **system design & architecture** across iGaming, SAAS and Analytics.
- Worked with products from scratch, to handle **100K+ concurrent games** and manage **500+** SaaS tenants.
- Led teams of **25+ engineers** across backend, frontend, QA, and DevOps.
- Expertise in **distributed systems, microservices, real-time infra, security** and **observability** practices.

PROFESSIONAL SKILLS

- **Leadership & Delivery:** Agile (Scrum/Sprints), Stakeholder Communication, OKRs, Hiring & Mentoring.
- **Backend:** NodeJS, PHP, Python, Typescript, GraphQL, Redis, Elastic cache, RabbitMQ, KAFKA.
- **Frontend:** React, Angular, Javascript.
- **Micro-services:** Docker, Kubernetes, RPCs, Distributed Transactions, Temporal.io .
- **Databases:** MySQL, PostgreSQL, Oracle, SQL Server, MongoDB, DynamoDB, ArangoDB.
- **AWS:** IAM, EC2, Lambda, EKS, Fargate, SQS, SNS, Fargate, Secret Manager, API Gateway.

HIGHLIGHTS & ACCOMPLISHMENTS

- **Authored certified random number generator** for real-money iGaming, ensuring compliance and trustworthiness.
- **Institutionalised Agile sprint practices**, resulting in more predictable deliveries and 35%+ release velocity.
- **Performed industry audits & technical due diligence** for iGaming and SaaS platforms, ensuring compliance with regulatory standards and investor requirements.
- Led **Cyber Securities (VAPT/OWASP)** initiatives, identifying and mitigating security risks, improving platform resilience against fraud and cyberattacks.
- **Developed Visual Studio plugin** to generate low-code runnable module interfaces for SaaS clients, accelerating client onboarding and customisation.
- **Re-architected monolithic platforms into microservices**, for scalability, fault isolation and deployment agility.
- **Benchmarked WebSockets/APIs**, achieving p95 RTT <50ms/<100ms with 80K+ concurrent connections.
- **Optimised high-concurrency workflows** by moving from the application layer to database stored procedures for performance improvement (500%) and consistency.
- **Implemented double-entry accounting system**, enabling seamless integration with third-party accounting software and ensuring compliance with industry standards.
- **Scaled and mentored startup engineering teams from 3 to 25+ members**, establishing engineering best practices that accelerated feature delivery with improved team retention.

WORK EXPERIENCES

Passion Gaming LTD., Dubai, UAE

JAN 2024 - AUG 2025

Engineering Manager | Team Size: 27

Technology Stack: NestJS, Python, PHP, Unity, MySQL, DynamoDB, AWS, Redis, Docker Swarm, Kafka, Redis-RPC.

- Formalised business requirements into tangible sprints.
- Migrated game servers from **stateful** → **stateless** using Redis Streams & distributed queues.
- Designed & optimised **wallet/transaction systems** ensuring atomicity and minimal deadlocks.
- Implemented **scalable WebSocket** infra with **Redis-adapter**, supporting **millions of concurrent users**.
- Architected **event-driven, Redis-RPC, gRPC** enabled **micro-services**.
- Drove **observability practices**, reducing incident resolution time.
- Mentored engineers, enforced **code quality & best practices**, and aligned delivery with compliance needs.

EVC Labs PVT. LTD., India / Dallas, Texas

Associate Solution Architect | Team Size: 18

- **Technology Stack:** NodeJS, GraphQL, PostgreSQL, Angular, React, ArangoDB, AWS, Rabbit MQ, ELK, Kubernetes.
- Architected and delivered **Higher-ED ERP SaaS** platform adopted by **150+** colleges and schools globally.
- Designed features including **lead management, enrolment, duplicity detection support**, and **AI chatbots**.
- Built **microservices based architecture** with **Gateway pattern, Kubernetes, gRPC & RabbitMQ**.
- Integrated third-party systems like **Salesforce, Slack, SIS**, and **payment gateways**.
- Optimised DB schemas (**ArangoDB, MongoDB**) and system performance to ensure scalability and availability.
- Led team in **Agile/Scrum practices** with sprint planning, estimation, reviews, and continuous improvements.
- Oversaw **code reviews, refactoring, bug fixes**, and ensured adherence to **best practices**.

FORBES Technology India PVT. LTD., India

MAY 2016 - SEP 2019

SDE-II | Team Size: 12

- **Technology Stack:** NodeJS, PHP, AngularJS, MongoDB, MySQL, AWS, C3.JS.
- Contributed to **BrandVoice Analytics**, Forbes' partner reporting platform, delivering brand impression analytics.
- Integrated data from multiple sources (**Google Analytics, MOAT, DFP, Facebook, Taboola, Outbrain**).
- Designed & optimised **schemas (MySQL, MongoDB, Redis)** for high-volume data ingestion and transformation.
- Developed configurable reporting dashboards with charts, RBAC, scheduled reports, exports, and alerts.

VSERVE Business Solutions PVT. LTD., India

APR 2015 - MAY 2016

SDE-I | Team Size: 8

- **Technology Stack:** PHP, Yii, AngularJS, jQuery, PostgreSQL, Apache Tomcat, Linux.
- Developed **Bookmap.io**, a metadata management platform for books (ONIX 2.1 standard) with role-based access control.
- Built **scheduler & automated rule engine modules**, background jobs (Ruby, Shell), and REST APIs.
- Designed and optimised **MySQL stored procedures** and implemented XSLT components.

UNEVA Automations India PVT. LTD., India

MAY 2012 - APR 2015

SDE-II | Team Size: 6

- **Technology Stack:** PHP, Yii, jQuery, PostgreSQL, Apache Tomcat, Linux, SVN.
- Developed **Hospital Information System (HIS)**.
- Integrated HIS with **Tally ERP 9.0** and medical hardware (lab equipment, biometric attendance).
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EDUCATION

MASTER OF COMPUTER APPLICATION

2009 - 2012

University Of Allahabad, India

BACHELOR OF SCIENCE

2005 - 2008

University Of Allahabad, India

COURSES & CERTIFICATIONS

Docker Mastery: With Kubernetes + Swarm (Udemy)

2020

Machine Learning: Basics (Udemy)

2020

The MongoDB Aggregation Framework (MongoDB University)

2018