Prayas Bhatnagar

Karnataka, India prayas90@gmail.com +919620028648 linkedin.com/in/prayasbhatnagar kaagaz-kalam.com/

SUMMARY

Java Backend Engineer with 13+ years of experience designing, developing, and modernizing enterprise applications, specializing in financial risk technology. Strong expertise in Java, Spring Boot, solution architecture, microservices, and system integration, with hands-on experience in Python (FastAPI/Flask) and AI-driven solutions. Delivered measurable improvements through system modernization and automation, including 70% faster stress-test processing and 50% faster legacy-system processing. Currently working on risk analytics and predictive solutions while managing engineering teams, collaborating with stakeholders and product managers, and driving technical design and delivery.

SKILLS

Programming Languages & Frameworks: Java (8–21), Python, Spring Boot, Spring MVC, Spring Security, Spring Data JPA, Hibernate, FastAPI, Flask

Architecture & System Design: Solution Architecture, Microservices, RESTful APIs, Event-Driven Architecture, API Contract Design, Design Patterns, Legacy Modernization, Enterprise Integration

Databases & Messaging: SQL, MySQL, Redis, RabbitMQ, Kafka (Working Knowledge), Data Pipelines, Data Quality & Validation

Cloud, DevOps & Observability: AWS (Cloud Practitioner — Foundational), CI/CD, Jenkins, GitHub Actions, TeamCity, Prometheus, Grafana, Shell Scripting

AI & Data Analytics: RAG-Based AI Agents, LLM Integration, OpenAI API, Time-Series Forecasting (ARIMA), GitHub Copilot, AI-Assisted Development

Engineering Leadership & Delivery: Technical Leadership, Team Management, Solution Design, Stakeholder Management, Product Collaboration, Mentoring, Technical Roadmapping, Agile/Scrum

Financial Services & Risk Domain: Liquidity Risk, Operational Risk Analytics, Model Governance, Regulatory Reporting, Trade Data Analytics

EXPERIENCE

Specialist, Global Risk Data Analytics

Synechron **January 2026 - Present, Bengaluru, India**

- Built backend analytics for 30+ models governance and controls, including model-performance metrics, risk calculations and monitoring data presented through dashboards.
- Maintain 2 billion metrics trade-data for operational risk and integrate trend data and a curated knowledge base with an internal RAG-based AI agent.
- Developed an ARIMA-based incident forecasting model to enable proactive risk mitigation, targeting a 45% reduction in worst-case financial impact.
- Alongside risk analytics delivery, support wider engineering adoption of AI-assisted development workflows and internal tools.
- Engineered a Python-based data pipeline to ingest, cleanse, and transform diverse trade data sources for operational risk metrics.
- Lead the engineering team, overseeing technical decisions, solution design, delivery, mentoring, and people management.
- Collaborate with business stakeholders and product managers to define requirements, prioritize initiatives, and align technical delivery with business objectives.

Associate Specialist, Liquidity Risk Technology

Synechron **March 2023 - December 2025, Bengaluru, India**

- Led automation of Money Market Stress Test calculations, reducing processing time by 70% and lowering manual risk-reporting effort.
- Owned solution design for stress testing, bucketing and asset/volume calculations supporting daily regulatory reporting.
- Created GitHub Copilot prompt workflows for internal development tasks, reducing engineering effort on those tasks by 35%.
- Built Python-based internal tools using FastAPI and Flask, including a data-quality validation layer for risk-calculation pipelines.
- Defined API contracts and upstream/downstream data acquisition; supported Eaton Vance onboarding into liquidity reporting processes.
- Optimized legacy stored procedures, tables and views to improve database processing performance by 30%; led CI/CD improvements and maintained architecture and support documentation.

Technology Lead, Liquidity Risk Technology

Synechron **March 2021 - February 2023, Bengaluru, India**

- Led migration of a business-critical liquidity risk platform to Spring Boot, improving process performance by 50%.
- Automated fund-level Liquidity Risk Stress Test calculations and production of business-ready reports.
- Added early validation to report generation, reducing support-team involvement by 60%.
- Directed architecture and technical design for daily liquidity reporting services; aligned the delivery roadmap with regulatory and stakeholder priorities.

Technical Team Lead

Capgemini **November 2019 - March 2021, Bengaluru, India**

- Built document-processing capabilities using the open-source Tesseract OCR engine; designed algorithms that reduced manual intervention by 50%.
- Delivered a document-processing user interface that reduced support involvement by 65%.
- Introduced client-specific improvements and proactive monitoring; mentored engineers in implementation and design practices.

Consultant, Enterprise Service Bus (ESB)

Capgemini **March 2017 - November 2019, Bengaluru, India**

- Designed the enterprise service bus database, integration layer and reporting architecture catering to 10 firm wide end systems.
- Developed 15+ WSO2 ESB integrations across SFTP, IMAP and web services, covering inbound and outbound data flows.
- Converted requirements into solution designs and architecture documents; prepared delivery estimates and supported server and database provisioning.

Consultant, IBM Business Process Manager (BPM)

Capgemini **February 2014 - March 2017, Bengaluru, India**

- Implemented more than 35 business process workflows and system transitions using IBM BPM.
- Led weekly requirements workshops and UI mock-up reviews; coordinated developer allocation, training and release testing.
- Designed and implemented scalable process workflows using IBM BPM, improving system transition efficiency for more than 20 enterprise clients.

Web Developer

Babysoft Software **July 2013 - February 2014, Bengaluru, India**

- Developed, deployed and maintained web applications and supporting databases based on client requirements.
- Designed and implemented user-friendly interfaces and backend logic for more than 12 client web applications, leveraging foundational web development principles.
- Implemented robust version control strategies and testing protocols to ensure code quality and application stability for client projects contributing to less than 20% post deployment prod bugs.

EDUCATION

B.Tech, Production Engineering

Bharati Vidyapeeth University • Pune • 2013

CERTIFICATIONS

AWS Certified Cloud Practitioner

HackerRank Certified Software Engineer

Web Component Development using Java Technologies

Java Multithreading, Concurrency and Performance Optimization

RECOGNITION

Project Star

Synechron

Star of the Quarter

Synechron

Outstanding Contribution to Delivery Award

Capgemini