KARTIK PAGEY

Stony Brook, NY 11790 | +1 (732) 589-6422 | kartik.pagey.dev@gmail.com | LinkedIn | GitHub | Portfolio

SUMMARY

Ex-Software Engineer with 4+ years of experience developing scalable backend and full-stack systems using Java, Python, Spring, REST APIs, and MySQL. Currently pursuing Master's in Data Science at Stony Brook University, focusing on system design, AI, ML, and cloud computing. Proven record of designing and optimizing full-stack solutions at PricewaterhouseCoopers (PwC) and Cognizant. Passionate about building high-performance, data-driven, and AI-enhanced systems, and seeking a **Summer 2026 Software Engineering Internship** to engineer impactful solutions at scale.

EDUCATION

Stony Brook University, USA   **Aug 2025 - May 2027**
Master of Science in Data Science
Coursework: Data Structures & Algorithms, Database Systems, Cloud Computing, System Design, Computer Vision

Savitribai Phule Pune University, India   **Aug 2016 - May 2020**
Bachelor of Engineering in Electronics and Telecommunications
Coursework: Object-Oriented Programming, Operating Systems, Computer Networks and Security, Machine Learning

PROFESSIONAL EXPERIENCE

PricewaterhouseCoopers (PwC)   **Oct 2022 – Jul 2025**
Software Engineer

- Developed end-to-end modules leveraging **Java, Spring MVC, JSP and JavaScript**, increasing transaction throughput by 30% for global retail clients.
- Engineered high-performance **REST APIs and microservices**, reducing the average response latency by 25% and enabling seamless integration with third-party payment, logistics, and CRM systems.
- Orchestrated and automated backend job pipelines using **CronJobs, REST services, and Database triggers**, reducing manual dependencies by 45% and improving adherence to SLA.
- Designed and optimized **CI/CD pipelines** (Git, Jenkins, Cloud Commerce), cutting the deployment effort by 40% and accelerating release cadence across multi-region environments.
- Drove **Agile** delivery as part of a cross-functional team, leading **sprint planning**, peer code reviews, and release readiness, ensuring high-quality deliverables under tight deadlines.
- Spearheaded key back-end optimizations by refactoring service logic, decreasing average API response time by 20ms and enabling the team to ship features 15% faster than before. Monitored performance using Kibana and Dynatrace.

Cognizant Technology Solutions   **Nov 2020 – Oct 2022**
Software Engineer

- Engineered and deployed scalable **RESTful microservices** using **Java, Spring Boot, and MySQL**, improving system throughput and reliability through asynchronous request handling.
- Formulated modular **service layers** and implemented **API orchestration** to synchronize data across distributed components, ensuring consistency and fault tolerance.
- Constructed reusable **backend utilities** for logging, authentication, and exception handling, reducing duplicate code by 25% and standardizing project-level practices.
- Implemented comprehensive **unit, integration, and regression tests** with **JUnit** and **Mockito**, achieving 80%+ code coverage and enhancing release stability.

PROJECTS

EventBooker-Pro - *Java, Spring, JPA, MySQL, REST APIs, System Design*

- Architected a scalable movie ticket booking platform using **Spring Boot, Java, MySQL, and JPA/Hibernate**, enabling multi-city support, 3+ seat categories, and 40% faster booking throughput with secure authentication.
- Structured relational data models and **RESTful APIs** to handle **1000+ concurrent bookings**, integrating payment gateway (UPI, Credit Card, Net Banking), coupon validation, and analytics-ready transaction logs.
- Implemented **JPA/Hibernate** for ORM and optimized query execution, improving booking throughput by 40% and ensuring consistency under peak load.

MovieMatch-Studio - *Python, pandas, NumPy, scikit-learn, Streamlit, TMDB API, requests/JSON, pickle*

- Built and Launched a **content-based movie recommender system** using **Python, scikit-learn, pandas, and Streamlit**, serving top-K movie recommendations with cosine similarity on TMDB data.
- Integrated the **TMDB API** to fetch movie metadata and posters, and released the app on **Heroku** with environment-based secrets and pickled model artifacts for fast inference.

TECHNICAL SKILLS

Programming Languages: Java, Python, C/C++, R, JavaScript, SQL
Backend & Frameworks: Spring MVC, Spring Boot, JSP, REST/SOAP APIs, JPA/Hibernate, SAP Hybris
DevOps & Analytics: Jenkins, Bitbucket, Jira, Postman, Tableau, Power BI, Kibana, Dynatrace, Solr, SonarQube, Excel
Web & Cloud Tools: HTML, CSS, XML, JSON, Jupyter, Git, Agile, SAP Commerce Cloud
Data Science & Libraries: Pandas, NumPy, Scikit-learn, OpenCV, Matplotlib