

# KARTIK PAGEY

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Ex-Software Engineer pursuing a Master's Degree, aspiring to apply data-driven and backend expertise as a Full-Stack Software Engineer.

## 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**

*Programmer Analyst*

- 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

## ACHIEVEMENTS & EXTRACURRICULAR

- **SAP Certified Development Professional** – SAP Commerce Cloud Developer.
- Honored with **3 PwC 'Star' Awards** and **'Above N Beyond' Award** for leading backend architecture and optimization.
- Led a 250+ member team as **Operations Head** for **Aarohan Fest (MIT-WPU Pune)**; managed a **\$90K+ budget**, secured **\$40K+ sponsorships**, and executed **60+ events** for **15K+ participants**, improving efficiency by **35–40%**.