

EDUCATION

New York University , New York, USA <i>MS, Computer Engineering (Merit Scholarship Recipient) — GPA: 4.0</i> Relevant Coursework: Big Data, Software Engineering, Cloud Systems, Network Security, Computer Vision	05/2025
Chitkara University , Punjab, IN — GPA: 3.8 <i>BE, Computer Science</i> Relevant Coursework: Data Structures & Algorithms, C, Java, Python, Advanced DBMS, Data Mining, Computer Graphics	08/2019

SKILLS

- **Languages:** Java, Python, JavaScript, SQL, R, TypeScript, HTML, CSS, C/C++, Bash
- **Frameworks:** Spring Boot, Flask, Django, Hibernate, React, Angular, Redux, Next.js, Node.js, JUnit, Mockito, TestNG
- **Tools:** REST APIs, SOAP, Microservices, Git, Elasticsearch, Grafana, AWS (S3, EC2, Lambda), Jira, GCP, Azure, Jenkins, CI/CD, Power BI, MySQL, PostgreSQL, MongoDB, Git, Docker, Kubernetes, Apache Kafka, Spark, Apache Airflow

EXPERIENCE

Hexion <i>Software Engineer Intern</i>	Columbus, OH 05/2024 – 12/2024
<ul style="list-style-type: none">• Engineered Code Generator utilizing Python, Azure Data Factory, PySpark, and SQL, reducing manual intervention by 50% and cutting data ingestion time by 30%, enabling real-time analysis and system efficiency.• Implemented CI/CD pipeline in Azure DevOps for forecasting models using docker, automating build, test, and deployment to Azure Container Registry. Reduced deployment time by 30% using Azure Pipelines, Docker, and Python.• Developed forecasting systems using Python (Pandas, NumPy, Scikit-learn), implementing models like ARIMA and SARIMAX to enhance demand prediction accuracy by 15%, optimizing resource allocation.	
PhonePe <i>Senior Software Engineer</i>	Bengaluru, India 10/2021 – 07/2023
<ul style="list-style-type: none">• Architected core backend services using Java, Spring Boot MVC, adhering to Agile methodologies and engineering best practices to enhance software development life cycle (SDLC) efficiency for PhonePe’s merchant onboarding module. Enabled seamless management of bulk data inflow and services for over 20 Million merchants across India.• Improved critical business processes by optimizing the bank change flow logic, employing advanced problem-solving and troubleshooting techniques. Achieved a 20% increase in efficiency while enhancing customer focus and user experience during high-traffic periods through a custom cache warm-up solution.• Established efficient data pipelines by integrating Apache Airflow and Apache Spark, demonstrating technical leadership and software design expertise. Automated the secure transfer of sensitive datasets among vendors, resulting in a 30% reduction in compliance processing time while adhering to coding standards and source control management.• Designed a new microservice for bulk data processing, including the retrieval, parsing, redaction, encryption, and storage of sensitive CIBIL reports using Aerospike and Spring Boot MVC. Delivered a robust software architecture achieving 100% automation of the flow, showcasing design experience and programming language proficiency.	
Paytm Money <i>Software Development Engineer</i>	Bengaluru, India 11/2020 – 10/2021
<ul style="list-style-type: none">• Spearheaded backend development for a stock trading app, improving performance and reducing CPU load by 20% through the integration of Locust and AWS load testing frameworks.• Implemented Spring Boot-based RESTful APIs leveraging Kubernetes to reduce latency by 30% and ensuring scalability for real-time, high-volume transactions.	
Evive Software Analytics <i>Software Development Engineer</i>	Bengaluru, India 03/2019 – 11/2020
<ul style="list-style-type: none">• Optimized data pipelines for ETL processing in healthcare systems using Python, Cassandra, PostgreSQL, DynamoDB, and AWS Lambda, increasing processing efficiency by 40%.• Automated SSO testing processes, reducing manual work by 50%, and delivered in-depth reports using Pandas and Matplotlib, enabling data-driven decision-making for stakeholders.	

PROJECTS

WavePulse: Real-time Political Content Analysis on Radio (Research Paper)	GitHub Website
<ul style="list-style-type: none">• Built an interactive web platform utilizing ReactJS for the front end and Django for backend services, delivering real-time radio transcript data to over 1,000 users with minimal latency on Digital Ocean.• Architected RESTful APIs in Django to manage and visualize, sentiment analysis on various candidates and parties, participating in the election, spread all over the 50 states in USA.• Integrated Google Gemini-1.5 Flash for concise summarization of political discussions, developed an algorithm to dynamically, figure out the start and end point of a radio conversation, extracting key political points from 100% of the transcripts.	
Book Social Network	GitHub
<ul style="list-style-type: none">• Engineered a Book Social Network platform utilizing Spring Boot for backend services, PostgreSQL for efficient database management, JWT for secure user authentication and CRUD operations for book and user interaction management.• Built a responsive frontend using Angular, featuring a sleek UI crafted with CSS and Bootstrap, enhancing user experience.	