

VIVEK GUPTA

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SKILLS

Backend/Frontend: Java, Spring Boot, Python, Node.js, TypeScript, JavaScript, React, Angular, Rails

Data/ML: SQL, MongoDB, Redis, Elasticsearch, Pandas, NumPy, Scikit-Learn

Cloud/DevOps: AWS (Lambda, DynamoDB, SQS, SNS, EC2, S3, Cloudwatch), Docker, Terraform, Jenkins

EXPERIENCE

Software Development Engineer

Amazon

July 2022 – Present, Seattle, WA

- Enhanced book **recommendation strategies** to surface next unowned series, driving **+320K paid book units annually**.
- Built **LLM-powered CLI tool** to automate config cleanup, saving **9+ days/month org-wide** via cross-team collaboration.
- Developed **Java Spring Boot microservices** to integrate Audible purchases into the Series Page, driving **+541K paid units annually**.
- Led migration of **BuyNextX** feature from monolithic to card-based architecture, **reducing latency by 17.2%**.
- **Mentored intern** on bulk-buy books feature, guiding architecture decisions and code quality, accelerating delivery.
- Developed **event-driven microservice** (Lambda, SQS, DynamoDB) to replace daily sync, showing **real-time ownership for 37%** of new release buyers.
- Drove **Continuous Delivery (CD)** rollout across 18 pipelines, cutting deployment time from **2 days to 45 mins**.
- Led security initiative **certifying 12+ services** with SQS/SNS encryption for compliance.

Software Engineer Co-op

Skillz

August 2021 – December 2021, Las Vegas, NV

- Built **push notification UI and APIs (React, Rails, APNs)** powering player engagement campaigns for **750K+ MAU**.
- Developed analytics dashboard with **Redis caching and pre-aggregation**, reducing load times by **230ms**.
- Implemented **Role-Based Access Control (RBAC) system** enabling granular access for **20K+ game developers**.

Software Engineer Intern

Datacore Software

May 2021 – August 2021, Fort Lauderdale, FL

- Engineered **ETL pipeline** to ingest Jira data into Elasticsearch, streamlining analytics and reporting.
- Built **Angular dashboard** to visualize bug trends, reducing defect resolution time by **15%**.
- Automated s/w build **performance regression detection**, flagging issues in **less than 2s**.

Software Engineer

BNP Paribas ISPL

June 2016 – July 2019, Mumbai, IN

- Migrated and optimized automation testing framework, reducing execution time by **12%**.
- Built reusable Java API testing libraries, saving **3 man-days per 6-week release cycle**.

EDUCATION

Master of Science, Computer Science

Rochester Institute of Technology (RIT) · Rochester, NY · 2022 · 3.8/4.0

- Relevant courses: **Data Structures and Algorithms, Advanced OOP concepts, Machine Learning, Big Data Analytics.**

Bachelor of Engineering, Information Technology

University of Mumbai · Mumbai, India · 2016

PROJECT

CRWN-CLOTHING — E-commerce web application

- Full-stack e-commerce store (**React, Redux-Saga, Firebase, Stripe**) with google authentication, and order management.

COVID-19 Data Analysis — ML Forecasting System

- Processed **~1M records** with Pandas/NumPy and applied XGBoost and ARIMA, achieving **89% F1-score**.