

# VIVEK GUPTA

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## SKILLS

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**Languages & Databases:** Java, Python, C, TypeScript, JavaScript, HTML/CSS, SQL, Redis, MongoDB

**Frameworks & Libraries:** React, Angular, Node.js, Rails, Flask, Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn

**Tools & Cloud Technologies:** AWS, Docker, Jenkins, Elasticsearch, Kibana, Terraform, Firebase

## EXPERIENCE

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### 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.
- Integrated Audible purchase functionality into Series Detail Page, generating **+541K paid units annually**.
- Led migration of BuyNextX (BnX) feature from monolithic architecture to card-based format, **reducing latency by 17.2%** and generating **+224K paid units annually**.
- Developed event-driven microservice to replace daily sync, showing real-time ownership for **37% of new release buyers**.
- Designed and implemented **RESTful APIs** for book genre tags using **NLP techniques** along with deduplication and ranking.
- Drove full CD initiative across **18 pipelines**, reducing deployment time from **2 days to ~45 mins**.
- Led security initiative to certify **12+ services** encrypting SQS/SNS streams, ensuring comprehensive security compliance.
- **Utilized:** Java, NodeJs, React, SQL, Typescript, LLMs, Elasticsearch, AWS (DynamoDb, Lambda, SQS, SNS, Cloudwatch, EC2, S3).

### Software Engineer Co-op

Skillz

August 2021 - December 2021, Las Vegas, NV

- Built push notification UI and APIs with **Apple Push Notifications**, running player engagement campaigns for **750K+ MAU**.
- Developed analytics dashboard and API with Redis caching and pre-aggregation, **reducing load times by 230ms**.
- Implemented scalable Role-Based Access Control system enabling granular **access management** for **20k game developers**.
- **Utilized:** Redis, SQL, Datadog, Typescript, Scss, React, Rails, Jenkins, Cypress, Jest.

### Software Engineer Intern

Datacore Software

May 2021 - August 2021, Fort Lauderdale, FL

- Engineered Jira data ingestion into Elasticsearch via a **robust ETL pipeline**, streamlining analytics and reporting.
- Built Angular dashboard to visualize bug trends by age, severity, and team, **reducing critical issue resolution time by 15%**.
- Automated build performance and stability analysis from raw Elasticsearch data, **detecting regressions in <2s**.
- **Utilized:** Angular, Nodejs, Python, Flask, ElasticSearch, Kibana, Pandas, Numpy, Matplotlib, Seaborn.

### Software Engineer

BNP Paribas ISPL

June 2016 - July 2019, Mumbai, IN

- Migrated and optimized automation testing framework, reducing script **execution time by ~12%**.
- Built reusable Java libraries automating API testing, **saving 3 man-days** per 6-week release cycle.
- Optimized SQL queries and implemented database indexing, improving application **loading time by ~20s**.
- **Utilized:** Java, Excel, Application Lifecycle Management (ALM), Jira, UFT, VBScript.

## EDUCATION

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### 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

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### CRWN-CLOTHING — E-commerce web application

[crwn-clothing-vivek-app.netlify.app/](https://crwn-clothing-vivek-app.netlify.app/)

- Built a full-stack clothing store using **React** and **Redux-Saga** with shopping cart, authentication, and order management.
- Handled **Firestore database** operations and **Stripe payment** processing via serverless functions.
- Developed application with **React Router** and **styled-components** following modular architecture principles.

### COVID-19 Data Analysis — ML Forecasting System

- Processed and analyzed **~1M records** with Pandas and NumPy for data preprocessing.
- Applied **XGBoost** and **ARIMA** forecasting models to predict future COVID-19 cases.
- Achieved **89% F1-score** with robust statistical validation.

## CERTIFICATIONS

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**Complete React Developer course on Udemy**

**Oracle Certified Associate Java Programmer (OCAJP)**

**Bravo Award for best employee in department for Q3'2018**