VIVEK GUPTA

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SKILLS

Programming Languages: Java, Python, JavaScript, TypeScript, SQL, HTML/CSS, MongoDB

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

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

EXPERIENCE

Software Development Engineer
Amazon   **July 2022 – Present, Seattle, WA**
- Enhanced book recommendation algorithms to surface next unowned series, driving **+320K paid book units annually**.
- Built an **LLM-powered CLI tool** for automated config cleanup by collaborating across multiple teams, **saving 50+ engineering hours** monthly.
- Integrated Audible purchase functionality into Series Detail Page, generating **+541K paid units annually**.
- Built an event-driven microservice with AWS Lambda, SQS, and DynamoDB to sync book updates in real time, enabling instant ownership visibility and filtering for **40% of users**.
- Designed and implemented **RESTful APIs** for book genre tags using **NLP techniques** with efficient deduplication and ranking.
- Increased **CI/CD adoption from 71% to 93%**, significantly improving release reliability and deployment efficiency.
- Led security initiative to **certify 12+ services** encrypting SQS/SNS streams, ensuring comprehensive security compliance.
- <u>**Utilized**</u>: 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 comprehensive push notification UI and backend APIs integrated with **Apple Push Notifications** for reliable player engagement campaigns.
- Developed analytics dashboard and API with Redis caching and pre-aggregation, **reducing load times by 37%**.
- Implemented scalable **Role-Based Access Control system** enabling granular access management for game developers.
- <u>**Utilized:**</u> Redis, SQL, Datadog, Typescript, Scss , React, Rails, Jenkins, Cypress, Jest.

Software Engineer Intern
Datacore Software   **May 2021 – August 2021, Fort Lauderdale, FL**
- Automated Jira data ingestion into Elasticsearch via a **robust ETL pipeline**, streamlining analytics and reporting.
- Visualized bug trends by age, severity, and team using Angular dashboard, improving prioritization and reducing **critical issues resolution time by 15%**.
- Transformed raw Elasticsearch data for automated performance and stability analysis, generating intelligent alerts and reducing **regression detection time by half**.
- <u>**Utilized:**</u> 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 22%**.
- Built reusable Java libraries for API-level testing, saving **3 man-days per release cycle**.
- Optimized SQL queries and **implemented database indexing**, significantly improving application performance.
- <u>**Utilized:**</u> Java, Excel, Application Lifecycle Management (ALM), Jira, UFT, VBScript.

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

crwn-clothing-vivek-app.netlify.app/

· Built a full-stack clothing store using **React, TypeScript, Redux-Saga** with shopping cart, authentication, and order management.

· Implemented secure user authentication, **Firestore database** operations, and **Stripe payment** processing with serverless functions.

· Developed scalable application with React Router, lazy loading, and styled-components following modular architecture principles.

COVID-19 Data Analysis — ML Forecasting System

· Processed and analyzed **~1M records** using Pandas and NumPy for comprehensive data preprocessing.

· Engineered advanced features for XGBoost and ARIMA forecasting models.

· Achieved **89% F1-score** in predicting future COVID-19 cases with robust statistical validation.

CERTIFICATIONS

AWS Certified Cloud Practitioner

Complete React Developer course on Udemy

Oracle Certified Associate Java Programmer (OCAJP)

Bravo Award for best employee in department for Q3'2018