VIVEK GUPTA

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SKILLS

Backend: Java, Python, Node.js, Flask, Rails

Frontend: React, Angular, TypeScript, JavaScript, HTML/CSS

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

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

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.
· Integrated Audible purchase functionality into Series Detail Page, generating **+541K paid units annually**.
· Led migration of BuyNextX (BnX) feature from monolithic to card-based architecture, reducing latency by **17.2%**.
· Developed event-driven microservice to replace daily sync, showing real-time ownership for **37% of new release buyers**.
· **Mentored intern** on bulk-buy books feature, guiding architecture decisions and code quality, accelerating delivery.
· 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.
· Designed and implemented **RESTful APIs** for book genre tags using **NLP techniques** along with deduplication and ranking.
· **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 with Redis caching and pre-aggregation, reducing load times by **230ms**.
· Implemented RBAC system enabling granular access 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 **ETL pipeline** to ingest Jira data into Elasticsearch, streamlining analytics and reporting.
· Built Angular dashboard to visualize bug trends, reducing critical issue resolution time by **15%**.
· Automated s/w build performance and stability analysis, 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 execution time by **12%**.
· Built reusable Java API testing libraries, 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

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 and Redux-Saga** with shopping cart, authentication, and order management.
· Integrated **Firebase** for real-time database operations with **Stripe** payment processing via serverless functions.
· Implemented modular architecture with **React Router** navigation and **styled-components** for maintainable styling.

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 & AWARDS

Complete React Developer course on Udemy

Oracle Certified Associate Java Programmer (OCAJP)

Bravo Award for best employee in department for Q3'2018