Pragya Datt

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EDUCATION

- **NIIT University** — Neemrana, Rajasthan
  B.Tech in Computer Science; Specialisation Data Science CGPA: 9.42 — *Aug. 2017 – Jul. 2021*

- **Delhi Public School** — Gurgaon, Haryana
  CBSE Board, Class 12 (Senior Secondary) - PCM Percentage: 87.6%
  CBSE Board, Class 10 (Secondary) - CGPA: 9.8

EXPERIENCE

- **Bigbasket** — Bangalore, KA

  Senior Software Engineer — *Oct 2023 - Present*

  ○ **Custom Data Setup Framework**:
    * Designed and implemented a complex system framework using a process-task architecture, reducing setup time by 85%.
    * 100% rollout of automated data setup done across all environments for feature testing and deployment.
    * Developed a reusable template system where tasks (APIs) could be associated with dependencies or be sequenced.
    * Implemented JSONPath-based internal associations for managing API inputs/outputs, handling custom functions like "repeat" and "bulk" cases, and supporting file uploads and parsing.
    * Enhanced scalability and efficiency by enabling templates to be duplicated across environments, streamlining feature testing and reducing setup time.
    * Managed the project end-to-end, from planning and proposal to development and use case sign-off.

  ○ **Developed Modular Consumer-Producer Flow**:
    * Designed and implemented a modular and reusable consumer-producer flow for a SaaS feature, allowing for seamless addition of new consumers, leading to improved maintainability of the system.
    * Setup consumers for real-time order activity updates, optimizing the approach to handle multiple topics efficiently without code duplication.

  ○ **Migrated Monolithic (1.0) to Microservice (2.0)**:
    * Successfully planned and executed the migration of features from 1.0 to 2.0, optimizing system architecture and improving overall performance.
    * Managed technical specifications, task planning, development, configurations, integration, testing, and release management, contributing to a more efficient and scalable platform.

  ○ **SPOC - ETA Microservice (for BBNow Quick Delivery)**:
    * Primary contact and lead developer for the heart of quick delivery service that determines delivery times based on store pickers / delivery executives / delivery routes and a variety of configurations and conditional use-cases.
    * Led multiple enhancements for complex ETA computations to improve customer perception and app experience.

  ○ **Lead Developer Part of Architect Communities**:
    * Spearheaded critical, tech-heavy and high visibility projects across Bigbasket.
    * Part of leadership and architect communities to brainstorm and arrive at the best approaches to engineering problems.

  Software Engineer 2 — *Apr 2022 - Oct 2023*

  ○ **Reduced System Errors and Improved Performance**:
    * Accomplished significant performance improvements and reduced 5xx errors by implementing failure handlers, optimizing pod startup times by 50%, and performing fault injection testing on high-throughput APIs.
    * Proactively identified and cleaned up error rates by analyzing Athena queries, deprecating unwanted APIs, and addressing S1 issues through careful non-prod testing and monitoring.
    * Increased system reliability by adding Aerospike retries to reduce connection timeouts.

  ○ **Achieved High Code Quality and Test Coverage**:

* Ensured 90%+ unit test coverage across projects, validated via PiTest, showcasing a strong commitment to code quality.
* Led training sessions on load testing with K6 and introduced automation practices with test containers, Wiremocks, and Mockito, contributing to the team's knowledge growth and improving testing efficiency.

Software Engineer 1   *Jul 2021 - Apr 2022*

- **Prime Developer behind BBNow (Quick Delivery)**:
  * Delivered the heart of the BBNow concept by architecting the ETA microservice (delivery time computation), from boiler plate to release ready code - the most critical piece directly impacting the success of BB.
  * Achieved impressive results: 150 successful store launches, 18.7 lakh new orders and 71 Cr. in sales within a 5 month period.
- **Resolved Critical System Issues**:
  * Mitigated a major DDoS attack on BigBasket by proposing and implementing a specialized blocking solution at the network layer, safeguarding system integrity and preventing 2+ hours of downtime.
  * Enhanced system performance by introducing targeted caching strategies during SaaS integration, reducing server calls and improving API efficiency.
- **Mentored and Onboarded New Team Members**:
  * Successfully ramped up new developers by conducting KT sessions on functional and technical flows, resulting in faster onboarding and enhanced team productivity.

Software Engineer Intern   *Jan 2021 - Jul 2021*

- **TATA Digital - BigBasket Member Integration**:
  * Developed and integrated core APIs involving login and authentication for the TATA - BB acquisition period that enabled successful member migration of over 100 million customers.
  * Worked closely with cross-functional teams, participated in technical discussions, resolved client-side issues.
  * Gained exposure to Agile methodologies and SDLC stages.

- **Tech Mahindra**   Noida, UP
  Intern   *May 2019 - Jul 2019*
  - Built a business case modeler tool to test the reliability of RPA products while ensuring business value to TechM customers.
  - Handled quantitative and qualitative aspects along with data visualization.
  - **Technologies**: RPA, UiPath, VBA, Advanced Excel, Power BI

PROJECTS

- **Student Counseling Chatbot**:
  - Designed and developed a counseling chatbot solution for a career counseling company - deployed live in production.
  - Recognized as the competition winner, securing a cash prize of INR 50,000 from among 10 finalist teams.
  - Led the project from start to finish, handling functional and technical requirements, creating a comprehensive system design document, and undertaking full-stack development.
  - Ensured a seamless user experience with custom UI, multi-device support, and flexible input options.

- **Broke Student Brokers**:
  - Built a cross platform android/ios trading bot app using Flutter to see portfolio and add funds.
  - Set up serverless functions in python created on Google Cloud that would run everyday at 11AM to forecast and perform trades using Alpaca (Simulated) and Yahoo Finance, Google Firebase as db, Jenkins and Docker to host.

- **Smart India Hackathon - 2020**: **'Grand Finalist' (Top 10%)** - ISRO (Indian Space Research Organization).

PROGRAMMING SKILLS

- **Technologies**: Kafka, Aerospike, K8s, Jenkins, AWS   **Languages**: Java, Python, SQL, Javascript

OTHER ACHIEVEMENTS

- **Ram Rajindra Malhotra Gold Medal** Jul 2021
  All rounder student in both academics and co-curricular amongst the graduating class.
  Issued by Ram Rajindra Malhotra Education Society

- **Best Sportsperson** 2018-2019
  Best sportsperson for the academic year
  Issued by NIIT University