Pranav Thakral

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Results-Driven Software Engineer | 1+ Year Experience | Proficient in Java, AWS, Data Analysis | Agile Automation

• EDUCATIONAL QUALIFICATIONS			
B.Tech, Computer Science & Engg.	Manipal University, Jaipur	8.3/10	2023
Class XII, CBSE	Bal Bharti Public School, Dwarka, New Delhi	95.60%	2019
Class X, CBSE	Bal Bharti Public School, Dwarka, New Delhi	9.8/10	2017

ACADEMIC & CO-CURRICULAR ACHIEVEMENTS

▪ Awarded A+ grade in Data Structures and Algorithms, RDBMS (SQL); A grade in OOPS, Engineering Mathematics III in MUJ	2021
▪ Received Proficiency Award in AISSCE (A1 in all five subjects) – Class XII, Bal Bharti Public School, Dwarka, New Delhi, 2019	2019

INTERNSHIPS

Amazon, Hyderabad   Software Development Engineer   *Jan '23 – June '23*

- ▪ Worked across the entire Software Development lifecycle – requirements gathering, design, implementing, testing and deployment
- ▪ Contributed to an **Agile Development** team of 10, attending 2-3 daily **scrum meetings** over a 6-month project to track progress
- ▪ Collaborated with the Filings team of **VAT International Services by Amazon** to implement the Annuals Automation project
- ▪ Implemented an automated process for filing annual returns for sellers ensuring reduced manual churn and SDE's bandwidth by **10%**
- ▪ **Tech Stack:** Java, AWS Services, IntelliJ, Spring Framework and SpringBoot, Git, Testing – JUnit, & Mockito, Spring, Lombok, Jackson

Project 1: **Adding Lambda Validator to AWS AppConfig using CDK**
- ▪ Added guard-rails to 6 existing freeform configuration profiles in an AppConfig using AWS Lambda to ensure 100% **data compliance**
- ▪ Ensured that any deployment in AppConfig resulted in the Lambda getting invoked and validate changes against a set of rules
- ▪ Configured 2 **IAM** permissions to enable the Lambda to access the **JSON** content of AppConfig's configuration profiles
- ▪ Set up and deployed the infrastructure stack using CDK in **TypeScript** on VISA's production AWS account

Project 2: **Automating the process of submission of Annual filing events**
- ▪ Added a feature in a Herd workflow (Amazon's API orchestration service) to automate submission of annual filing events to tax partners
- ▪ Used Amazon's Dacia service (event scheduler) to drive annual filing events into an **AWS SQS** fetched from **AWS DynamoDB**
- ▪ Ensured that messages from SQS were processed further and submitted to tax partners via an **API** call (1000+ submissions/day).
- ▪ Made **High Level designs, Low Level designs** & implemented the code change following **N-Layer Architecture** pattern.

PROJECTS & RESEARCH PAPERS

	Data Analysis Techniques for Quantification of Severity of Infection in Plant Leaves *Jan '22 – Jun '22*
Academic Projects	▪ Worked on **Pliman package**, an open-source package in **RStudio** that calculates **% severity** of plant diseases ▪ Tested the hypothesis and replicated results of the Pliman package developers using the original datasets ▪ Gathered insights on % severity in Arabica coffee leaves using new dataset (random sample) from plant village ▪ Understood the functionality of the package and learnt R language as a pre-requisite to the project ▪ Analysed research paper1 by Olivoto, Andrade and Del Ponte to gain in-depth understanding of Pliman package

TECHNICAL SKILLS

- ▪ Programming Languages (Java, C++, TypeScript, python, HTML, CSS, R), Data Structures, OOPS, Git, SQL, DBMS, Computer Networks
- ▪ **AWS services**: S3, Lambda, AppConfig, IAM, CloudFormation, CloudWatch, SQS, DynamoDB, infrastructure development using CDK
- ▪ Implementation of High-Level Design (HLD) and Low-Level Design (LLD) into code based on **Singleton**, **ACBDA** design patterns
- ▪ Experience with **testing frameworks** like Junit and Mockito and **development libraries** like Lombok, Jackson
- ▪ Experience with command line operations, utilising terminal for efficient workflow management
- ▪ Experience in **CI/CD** (Continuous Integration, Continuous Development) implementation for efficient software development
- ▪ In depth financial analysis of various companies – interpreting balance sheets, cash flow statements to inform investment decisions

POSITIONS OF RESPONSIBILITY

	HR Director, Markosc *Aug '21 – Jul '22*
Manipal University, Jaipur	▪ Conducted recruitment drives for multiple club verticals; supported preparation of team organization structure ▪ Assisted the Executive Committee in drafting the content and flow of workshops, quizzes and other events ▪ Ensured active participation of **50+** members in the club activities and promoted team building initiatives
	Organizing Committee, Genesis (IEEE) *Sept '19 – Oct '19*
	▪ Devised a plan for and ensured effective movement of the attendees, coordinated overall logistics in the event ▪ Supported the Executive Committee in the online (social media) and offline promotions of the event

EXTRA-CURRICULAR ACTIVITIES

Certifications	▪ Completed training titled Basics of C++ with Data Structures and Algorithms by Coding Ninjas (2021) ▪ Attended and completed a Web Development Bootcamp certification on Udemy (2021) ▪ Completed training titles 'AWS technical essentials' as an SDE Intern at Amazon (2023)
Social Service	▪ Received certificate of appreciation by Rotary Club Jaipur for participation in Blood Donation Camp, MUJ, 2019
Cultural Events	▪ Awarded **Best Delegate** for **exemplary** and **commendable participation** in Model United Nations, BBPS, 2017
Interests	▪ Enthusiastic about fitness, nutrition and travelling