

# Pranay Kumar

Software Developer Engineer – 3Yrs

[Github](#). [LinkedIn](#). [Portfolio](#)

Hyderabad, India

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## TECHNICAL SKILLS

System Design	- HLD, LLD
Languages/Frameworks	- C/C++, Java, Spring Boot, Python, React JS/TS, Webpack, babel
Databases	- SQL(PostgreSQL, MySQL, Redshift), NoSQL(DynamoDB, DocumentDB)
Cloud Infra	- AWS(SQS, S3, Lambda, RDS, Redshift, EC2, VPC, CloudFront etc)
Other Tools/Technologies	- Airflow, REST, GraphQL, CI/CD, Linux, Postman, Git/GitHub, SDLC

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## PROFESSIONAL EXPERIENCE

### SDE 1 | Amazon | PXT (Peoples Experience)

Hyderabad, India | Jan2023 - Present

**Technology Stack** – Spring MVC, AWS, Git, CI/CD, JAVA, React Frameworks, React Native, Python, Docker, EC2, VPCs, SQL/NoSQL, Airflow. Bedrock, AWS Services

Working as SDE in PXT organisation which deals with time and pay solutions worldwide for Amazon.

#### Achievements and Impact

- Engineered and deployed the PXT portal to support the entire US workforce, enabling over 7,000 HR professionals to handle more than 1 million daily transactions, improving efficiency by 45%
- Formulated and implemented a robust development strategy for weekly deployments, enhancing operational excellence across the organisation and reducing deployment downtime by 50%.
- Architected and developed self-service punch features for the AtoZ Mobile Application, now utilised by 16 million associates, increasing daily active users by 20% and reducing manual entry errors by 40%.
- Streamlined the development cycle from monthly to weekly iterations, accelerating the innovation pipeline and leading to the rapid deployment of new features across multiple applications, resulting in a 25% increase in user engagement.

#### Design Thinking and Architecture

- Designed MicroFrontEnd Application using the webpack, which serves the purpose of distributed systems with each team owning their services on the front end.
- Designed Code Review generator using bedrock model for auto generation code review descriptions across Amazon.
- Created async automation service using the fargate service along with event based triggers with custom SLA, reducing the human efforts for manual paycode and schedule creations across all Amazon FCs.

### SDE 1 | Amazon | ADS (Alexa Data Services) / AGI (Alexa Generative AI)

Hyderabad, India | Jul 2022 - Jan 2023

**Technology Stack** – Spring MVC, AWS, Git, CI/CD, JAVA, React Frameworks, Python, Docker, EC2, VPCs, SQL/NoSQL, Airflow.

Worked as SDE in ADS organisation which deals with end-to-end labelling services for Alexa and generative AI.

#### Achievements and Impact

- Executed a top-three hackathon idea, turning it into a flagship solution with 3,000 requests per minute.
- Led the development of automated dashboards, reducing costs by 20% compared to QuickSight.
- Enhanced public speaking and knowledge-sharing, inspiring colleagues and fostering a culture of exchange.
- Mentored products and operations on a widely recognized accessibility project developed myself during my internship, promoting the hiring of visually impaired individuals as a new social norm, broadcasted on [LinkedIn](#)

#### Design Thinking and Architecture

- Innovated a serverless architecture using Progressive Web Apps (PWA) for real-time performance applications, achieving a 40% reduction in operational costs and enabling seamless scalability to handle fluctuating user loads.
- Designed and implemented a new architecture leveraging AWS RDS, which reduced database server load by 60% and improved overall system performance by 50%, ensuring high availability and reliability.
- Architected and developed a microservices-based frontend application using AWS CloudFront, enhancing

- modularity, and increasing product ownership and accountability by 30% for each component.
- Led multiple automation projects, including QuickSights and AutoCuts, as part of Operational Excellence initiatives, resulting in a 45% reduction in manual processing time and improving data accuracy by 35%.

### Collaboration and Teamwork

- Mentored ML Data Associates to guide them on tech-based role changes
- Assumed managerial responsibilities during the absence of my supervisor, overseeing team operations, sprints, and standups.
- Contributed my development time to various teams, actively participating in the development of applications such as the labelling platform (the face of ADS), workflow renderers, and CV workflow creations.

## SDE Intern Full Time | Amazon | ADS (Alexa Data Services) / AGI (Alexa Generative AI)

Hyderabad, India | Jan 2022 - Jun 2022

**Technology Stack** – AWS Services, Git, CI/CD, JAVA, React Frameworks.

### Project Dawn

- Worked on a global impact project that deals with accessibility. Visually impaired people are more focused on sound-based applications which leads to the creation of the project for a labelling platform. I have modified the whole labelling platform which is the face of the ADS org. to support accessibility, shortcuts, text-to-speech, etc which seamlessly helps visually impaired persons to label easily.
- Created many documentation and guidelines on accessibility as it was the global impact on hiring them as some countries have mandatory hiring of persons with disabilities. This project helped many in hiring the visually impacted as well and the latency of labelling tasks has been reduced compared to normal people.
- Received a great deal of praise during the project demonstration to the Vice President of Alexa, leading to featured success stories on Inside Amazon and [Amazon LinkedIn](#)

## Technical Intern Full Time | Rakuten

Bangalore, India | Apr 2021 - Aug 2021

**Technology Stack** – Selenium, Groovy, Katalon Studio, Jenkins, Git, React Frameworks.

### Rakuten R-Pay

- Worked on the r-pay app to write all end-to-end test cases using Groovy on Katalon Studio. Created the test cases for IOS and Android as both applications are different.
- Created all the test cases as ideal for application to all the screen rations calculating all the limitations.
- Tech shared on writing the ideal test cases for fellow interns as I reviewed all other test cases.
- Worked on Jenkins jobs for automating all the test cases for different types of phones and reporting bugs.

### Symphony - Automated Testing Application

- Worked on Rakuten's launch of a new solution that transforms automated testing without the need for human code generation. created a system that records user actions as test cases and automatically translates them into code.
- As part of the project, I have also created a browser plugin skilled at capturing user activities for smooth test case development.

## EDUCATION

### Atal Bihari Vajpayee Indian Institute of Information Technology and Management | Dual Degree (Bachelors + Masters)

Gwalior, India | Aug 2017 - Jul 2022 | GPA - 7.5/10

### COURSE WORK

Web Architecture And Security  
Database Management System  
Software Engineering

Information System Security  
Computer Networking  
Artificial Intelligence

Data Structures  
Operation System

## CERTIFICATIONS, OPEN SOURCE AND ACHIEVEMENTS

- AWS Technical Essential Certification
- Amazon Data Classification and Privacy Certification
- [Oppia Android](#) – Open Source Contribution
- Runner Up in Juspay Hackathon National level
- Organiser of inter IIIT sports fest TWARAN and URJA