

# PRAYAG BHATT

Arcesium (The D.E. Shaw Group) | DA-IICT  
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## Experience



Arcesium

Hyderabad, Telangana, India

Senior Software Engineer

07/2024 - Present

**Collaborating with a new team to build a scalable, generic communication system** that integrates multiple communication channels, including email and instant messaging platforms. The system centralizes the management of communication threads, allowing seamless interaction from within the platform, improving workflow efficiency and ensuring consistent communication across various mediums.

- Working on the development of a communication system from scratch



Arcesium

Hyderabad, Telangana, India

Software Engineer

07/2022 - 06/2024

**Collaborated with a valuation team** to generate end-of-day prices for over 39 types of securities, improving pricing accuracy by 15%.

- Worked on the Pival tool to convert raw data into accurate quotes, which served as critical inputs for pricing evaluations across 39 types of securities.
- Migrated the Pival application to a serverless architecture using KEDA (Kubernetes-based Event Driven Autoscaler), successfully deploying the changes across 49 pods. This enhanced scalability and achieved an 85% reduction in EKS costs through serverless architecture, lowering monthly costs from \$1519 to \$160.
- Implemented collections, multi-threading, and process schedulers, increasing system throughput to handle event bursts efficiently, ensuring timely pricing within SLAs.
- Optimized backend computation engine, improving real-time monitoring of system changes, which reduced pricing errors by 15% for derivative instruments.
- Leveraged Java, Kotlin, and Amazon SQS to scale backend infrastructure, enabling the system to handle 400 million events daily



Amazon

Bengaluru, Karnataka, India

Software Engineer | Intern

01/2022 - 06/2022

**Contributed to Just Walk Out technology**, powering a seamless shopping experience in 40+ stores across the US and UK, improving the customer journey.

- Led the implementation of algorithms for improving customer entry and exit experience for Just Walk Out technology, enhancing system accuracy by 20%
- Developed and tested key grouping algorithms based on historical data, improving customer flow accuracy by 20%, enhancing the experience across multiple Amazon businesses in the US and UK.

## Education

Dhirubhai Ambani Institute of Information and Communication Technology  
Bachelor's degree, ICT (Information and Communication Technology) | CGPA: **8.05** / 10

Gandhinagar, Gujarat, India

01/2018 - 06/2022

Gyanmanjari Vidhyapith  
Science, 12th | Percentage: **94.3** / 100

Bhavnagar, Gujarat, India

01/2016 - 12/2018

## Summary

Enthusiastic software engineer with a robust background in creating and optimizing scalable tools and infrastructure. Proven track record in enhancing system efficiency and reducing costs, as demonstrated through successful projects at Arcesium and Amazon. Passionate about leveraging technical skills to contribute to innovative project developments and align with the mission of creating impactful solutions.

## Key Achievements

Awarded for outstanding contribution in supporting developer productivity at Arcesium (February 2024), recognized for helping out developers on technical issues

Elected member of the Student Placement Cell at DA-IICT (March 2019 - May 2022), actively contributing to improving student placement strategies and outcomes.

Ranked 140 out of 30,000 in the highly competitive Engineering Entrance Exam (March 2018), demonstrating strong technical aptitude and problem-solving abilities.

## Skills

C++ Kotlin Java Python React MSSQL Terraform Git CICD IntelliJ Docker Kubernetes AWS API Design Design Patterns SQS SNS Tomcat Springboot Rest API SDLC SQL