

# Jayesh Patil

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## EDUCATION

### Drexel University

Master of Science in Computer Science

Philadelphia, PA

Anticipated March 2025

- **Dean's Fellowship** (All quarters)
- **Clubs:** SHPE (Member)
- **Selected Coursework:** Data Structures & Algorithms, Systems Programming, Software Architecture, Artificial Intelligence, Programming Language Concepts, Advanced Web Development, Database Systems and Design

### Sushila Devi Bansal College of Technology

Bachelor of Science in Computer Science

Indore, India

June 2023

- **Clubs:** Internshala ( Campus Ambassador)
- **Selected Coursework:** Discrete Structure, Digital System, Data Base Management System, Object-oriented programming, Cloud Computing, Computer Organisation and Architecture

## TECHNICAL SKILLS

**Programming Languages:** C++, Python, Java, C, C#, HTML, CSS, JavaScript, SQL, Bash, AWK, Racket

**Databases:** DynamoDB, Oracle Database, PostgreSQL, MySQL, MongoDB

**Amazon Web Services:** S3, Lambda, Sagemaker, EC2, API Gateway, Cloudwatch, EventBridge, Notification Service

**Tools:** Node.js, Docker, .NET, Linux, PyTorch, Heroku, React.js, Postman, Ruby on Rails, Bootstrap, Git, Jira, Tableau

## WORK EXPERIENCE

### Alliant Infotech

Software Developer Internship

July 2023 - September 2023

Indore, IN

- **Developed:** and collaborated with a team of 9 people, enriching existing system metrics by 17%. Increased projected annual revenue by 10% through the implementation of optimized business logic.
- **Build:** design, development, and maintenance of scalable, high-performance products end-to-end, from identifying system requirements to software implementation, testing, and configuring metrics, alarms, monitors, and dashboards.
- **Deployed:** and integrated a continuous integration and deployment (CI/CD) pipeline, performed code reviews, curated documentation, and implemented load/stress testing along with unit/integration/end-to-end testing.

### Boxxell Animations

Software Developer Internship

May 2022 - July 2022

Indore, India

- **Developed:** a full-stack web application using React, TypeScript, Python, MongoDB, and AWS services, reducing development time by 25%.
- **Build:** with cross-functional teams to enhance user interface performance and optimize backend efficiency.
- **Deployed:** 10 MongoDB schemas, 5 AWS DynamoDB tables, and built 20 REST APIs with Node.js and Express for inventory order data.

## PROJECTS

- **Rubik Solver (Python)**, Implemented a rubik's cube solver using breadth-first search, depth-first search and A\* (Manhattan Distance) heuristic. Employed pattern databases and 2P pruning algorithms to optimize for minimum moves by reducing the search space. [GitHub](#)
- **Study Buddy (Back-end, Python)**, Automatically generates WhatsApp groups to bridge the gap between students and teachers. This benefited students to communicate and collaborate better during the academic semester. Tech: Python, Django, GCP, Angular.js, Jenkins, SQL, Restful APIs and Distributed systems [Try it!](#)
- **B.Tech Blueprint (Cloud native systems)**, A comprehensive blueprint on how to structure credits and subjects during B.Tech Degree. Total usage statistics upwards of 10000+ hours. Tech: EKS, EC2, Bootstrap, S3, ECR, DynamoDB, Object Oriented Programming OOP, CloudWatch and Cypress [GitHub](#)
- **Good-morning Text (Automation)**: Platform that automatically sends good morning messages while the user sips their morning coffee. Tech: Redis, SQL, AWS Lambda, JavaScript, NPM. [Try it!](#)

## PUBLICATIONS

“Cyber Security: The Need of Today's Environment” is published in the IJCST. [\[Link\]](#)

“AI and Related Suggestions in accordance with India's Condition” is published in the IJET. [\[Link\]](#)

“Review of Laws Regarding Women's Safety and Suggested Changes” is published in the IJHSSR. [\[Link\]](#)