

# PURTI AGARWAL

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## Education

National Institute of Technology, Raipur

Masters of Computer Applications

Dec 2020 - June 2023

Chhattisgarh, India

## Experience

### Optum

September 2023 – Present

Software Engineer

Gurugram, India

- Developed a **Node.js API backend server** to handle **license requests** for employees, implementing endpoints for **submission, approval, and rejection**.
- Integrated **ServiceNow** and **SharePoint** for seamless data flow and automation.
- Designed and implemented a **Power Automate cloud flow** to streamline request processing.
- Utilized **SQL Server** for efficient data storage and retrieval.
- Built a **fax PDF data extraction system** using **Azure libraries** and **Python**.
- Applied **machine learning algorithms** like **XGBoost, Random Forest, and Ensemble methods** to enhance data processing accuracy.
- Optimized extraction workflows to improve efficiency and reduce manual intervention.

### Amazon



January 2023 – June 2023

SDE Intern

Hyderabad, India

- Implemented over **150** unit tests using JUnit and Mockito, enhancing code reliability.
- Reengineered data exchange processes, replacing Excel sheets with automated Drools Decision Tables.
- Developed an AWS Lambda function for direct Drools decision file generation, reducing manual work.
- Slashed deployment time from 4 hours to under 2 minutes, a **99.2%** reduction.
- Introduced one-click deployment, eliminating manual approvals.
- Saved approximately **24 hours** of on-call bandwidth per week.
- Enhanced on-call response capabilities for critical events.

## Projects

Intra Share | *React.js, Node.js, MongoDB, Express* |  | 

- Developed an internal social media web application using the **MERN stack (MongoDB, Express.js, React, Node.js)**, designed to operate exclusively within an organization's or college's network.
- Implemented features including user registration with email-based authentication, network-restricted access, user following functionality, and interactive post engagement (likes and comments).
- Utilized **MVC** architecture to create a responsive web app, ensuring code organization, maintainability, and ease of future modifications.

My ChatRoom | *React.js, Socket.io, Node.js, Bootstrap* |  | 

- Developed a real-time group chat application using **Socket.io, React.js, and Node.js**, featuring five distinct chat rooms for diverse discussion topics.
- Designed the application to facilitate quick, effortless group conversations without requiring users to create permanent social media groups, enhancing communication efficiency.

## Achievements

- \* Secured **AIR 576** in **NIMCET'20** (NIT MCA Common Entrance Test 2020).
- \* Qualified Banaras Hindu University MCA Entrance Exam 2020.

## Profile Links

- \* Portfolio: [purtiagarwal.github.io](https://purtiagarwal.github.io)
- \* Linkedin: [linkedin.com/in/purti-agarwal](https://www.linkedin.com/in/purti-agarwal)
- \* Github: [github.com/PurtiAgarwal](https://github.com/PurtiAgarwal)

## Technical Skills

Languages: C++, JavaScript, TypeScript

Technologies/Frameworks/Libraries: ReactJS, Node.js, Express

Databases: MySQL, MongoDB, DynamoDB