

# PRADYUMAN TOMAR

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## Education

**Dr. A.P.J. Abdul Kalam Technical University**

*Bachelor of Technology - Electronics & Communication*

**July. 2018 – Aug. 2022**

*Meerut, Uttar Pradesh*

## Experience

**KAILASH WASTE SOLUTION**

**June 2023 – Oct 2023**

*Software Engineer*

- Deployed and managed backend services across servers, hosted as **AWS EC2** instances and maintained logging for proper seamless communication between client and server. .
- Designed and implemented scalable APIs and handling high volumes of user-generated content using **NestJs, AWS Functions, and Docker** that serve seamless operation and high availability.
- Implemented secure authentication and authorization flows, including JWT and OAuth2.0, ensuring the protection of sensitive customer and reducing the risk of security.
- Skills: **Docker, NestJs, Typescript, AWS, MongoDB, Shell, Flutter**

**WIPRO**

**April 2022 – May 2023**

*Project Engineer*

- **Part of Kellogg's team** that works on Cross System Integration for business processes & data across India.
- Developed scalable RESTful APIs using Node.js and Express, serving millions of requests per day.
- Designed and implemented an automated **email notification system** resulting in a 20% increase in user engagement.
- Optimized database queries by introducing **indexing and denormalization techniques**, resulting in a 30% reduction in response time.
- Skills: **Docker, NodeJs, Javascript, AWS, Shell**

## Projects

**CODEFUSION | ReactJS, ExpressJS, NodeJS, WebSocket, Docker, RabbitMQ**

**Github & Live Link**

- Led the development of a real-time full-stack coding editing platform, utilizing MERN stack with Secure Code Execution using Docker and Efficient Asynchronous Communication with RabbitMQ and WebSockets.
- Implemented collaboration features such as real-time code syncing, highlighting changes made by other users and pasting functionality.
- Designed & implemented efficient functionality using Socket.IO to store and manage user sessions and data.
- Optimized code editor performance by implementing caching strategies & reduced latency in data syncing and communication between users.
- Implemented an intuitive login panel with the ability to create new websocket room and join room.

**SHAREME | NodeJs, MailChimp, JavaScript**

**Github & Live Link**

- Developed an End-to-End feature-rich online **file-sharing platform** that integrates with GitHub, allowing users to easily share files and directories through a unique URL.
- Designed & implemented scalable backend features such as email URL sending, access control, & encryption to ensure secure storage and sharing of files.
- Implemented an intuitive file upload panel with the ability to upload new file and add email with file description.

## Technical Skills

**Languages:** TypeScript, Dart, C++, JavaScript

**Framework/Tools:** NodeJS, ReactJS, VS Code, Postman, MongoDB Compass

**Technologies/Frameworks:** AWS, MongoDB, Postgres, Git, Docker, Flutter

## Honors and Awards

- AIR 1550 in the Codekaze - June'23 Competition organized by CodingNinjas.
- Runner Up in the 2019 RoboCamp Div-1 organised in MIET Campus.

## Publications

**Comparitive study of multi-label classification with real-time object detection using Artificial neural network :**

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