

# ASHAY PATIL

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## PROFESSIONAL SUMMARY

Experienced in developing full-stack applications using React.js, Node.js, MongoDB, and Express.js, handling authentication, API design, and deployment pipelines with strong foundations in **Data Structures, Algorithms**, and **Object-Oriented Programming**. Experienced in developing **end-to-end scalable web applications** using the **MERN stack, RESTful APIs**, and **version control (Git)**. Proven track record of working in collaborative environments and delivering **real-world solutions** during hackathons and personal projects. Passionate about building secure, efficient, and user-friendly applications.

## EDUCATION

- Vishwakarma Institute of Technology**  
*B-Tech Computer Engineering*
  - GPA: 9.04/10.00

2023 - 2027

Pune, India

## COURSEWORK

**Data Structures and Algorithms** | **Object Oriented Programming** | **Database Management Systems** | **Operating Systems** | **Data Science**

## PROJECTS

- Deepfake Image Detection: Hackathon Project of AI-powered Fullstack website**  
*Tech Stack: React.js, CSS, Express.js, MongoDB, Mongoose ODM, REST APIs, JSON Web Tokens, React Router DOM*
  - Contributed to a fully scalable web application for a **national-level AI Agents Hackathon**, integrating AI models developed by teammates.
  - Integrated Multer for **image upload** from frontend to backend, enabling **ML-based** real vs fake detection through a **Python** script.
  - Collaborated with a **cross-functional team**, contributing to scalable features and seamless **API-to-model integration**.
  - Collaborated on **secure RESTful API integration, JWT-based auth**, and frontend routing with **React Router**.
  - GITHUB Repository: - <https://github.com/ashay-patil/Onelab-Hackathon>

March 2025


- AI Powered Code Reviewer: Web app powered by Google Gemini AI**  
*Tech Stack: React.js, Axios, CSS, Express.js, Google Generative AI SDK*
  - Developed a real-time code feedback system using **Google Gemini AI** to review and provide feedback on user-submitted code in real time.
  - Created **frontend-to-backend pipeline** to send code snippets and **display Gemini responses dynamically**.
  - Implemented **frontend-to-backend** integration to process and send code snippets to Gemini AI via **REST API using Axios and Express.js**.
  - GITHUB Repository: - <https://github.com/ashay-patil/AI-Powered-Code-Reviewer>

June 2025


- Auth Backend API: OTP-based Developer's Secure Playground**  
*Tech Stack: Node.js, Express.js, JSON Web Tokens, Nodemailer OTP Verification, Joi Validation, MongoDB Atlas, bcryptjs*
  - Created a **secure authentication backend** featuring **OTP-based verification, JWT login**, and **schema validation** using Joi.
  - Configured **MongoDB Atlas cloud DB**, followed best practices for user **input validation and error handling**.
  - Emphasized modularity and reusability for developer-centric API consumption.
  - Utilized Postman for **checking API routes** ensuring proper **request-response-cycle**.
  - GITHUB Repository: - <https://github.com/ashay-patil/Auth-Backend-APIs---A-Developer-s-Secure-Playground>

June 2025


- AI College Buddy: Your Personal College Study Mentor**  
*Tech Stack: Node.js, Express.js, REST-API, React Hooks, Axios,*
  - Developed a full-stack MERN web application that helps students **generate personalized study plans**, strategies, motivational tips, and **YouTube video recommendations**.
  - Integrated **Gemini 2.0 Flash API** with prompt engineering to produce structured markdown responses based on academic queries.
  - Developed functionality to **export AI-generated academic plans as downloadable PDFs**, enhancing usability and offline access.
  - GITHUB Repository: - <https://github.com/ashay-patil/Ai-College-Buddy>

June 2025



## SKILLS

- Programming Languages:** Java, Python, C, JavaScript
- Frontend:** HTML, CSS, JavaScript, React.js, React Router DOM, Axios
- Backend:** Node.js, Express.js, REST APIs, Axios, JSON Web Tokens, Mongoose ODM, Postman
- Database Systems:** MySQL, MongoDB
- Cloud Technologies:** Cloudinary, MongoDB Atlas
- Version Control:** Git, Github
- Core Strengths:** Problem Solving, Debugging, Troubleshooting, Code Optimization, Web Development.
- Soft Skills:** Excellent Communication, Teamwork abilities, Time management, Working Independently

## HONORS AND ACHIEVEMENTS

- Top 10 Finalist – Onelab Ventures Hackathon (150+ teams Nationally)**  
*Organized by Onelab Ventures*

March 2025
- Solved 240+ problems on Leetcode**  
*Leetcode*

Ongoing
- Achieved 5 Stars in Python, 4 Stars in C**  
*HackerRank*

Ongoing