

Atul Shukla

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EDUCATION

Prestige Institute of Engineering
Management & Research
B. Tech in Computer Science
CGPA: 7.2

Indore, Madhya Pradesh
Expected Graduation, May 2027

PROFILE SUMMARY

Results-driven Computer Science student with 2+ years of hands-on experience building scalable full-stack applications serving 5,000+ users. Engineered cloud-based platforms processing 10,000+ daily transactions with 99.8% uptime. Proven expertise in microservices architecture, RESTful API development, and AWS cloud infrastructure. Reduced deployment time by 80% through CI/CD automation and optimized system performance by 60% via database query optimization.

SKILLS

Programming: Java, Python, JavaScript, TypeScript, C/C++, Node.js
Backend & Frameworks: Express.js, Flask, Django
Frontend Technologies: React.js, Bootstrap, HTML5, CSS3
Cloud Platforms: AWS (EC2, S3, Lambda), Google Cloud Platform (GCP)
Databases: MongoDB, PostgreSQL, MySQL, Google Cloud Spanner
DevOps & Tools: Git, Docker, CI/CD, GitHub Actions, Nginx, Kubernetes, Prometheus

EXPERIENCE

AI Engineer Intern | Shtudy Inc | Remote

July 2024 – September 2024

- Engineered AI-powered code generation workflows serving 1,000+ daily requests, reducing application deployment time by 30% and achieving 95% deployment success rate
- Architected and implemented 15+ RESTful API endpoints for AI agent workflows, enabling seamless automation of coding and deployment processes across multiple environments
- Collaborated with 5-member backend team using Agile methodology to enhance server logic, implement CI/CD pipelines with GitHub Actions, and deliver bi-weekly sprint releases
- Developed intelligent prompt-to-code translation mechanisms using natural language processing, improving code generation accuracy by 40% and system scalability across 100+ concurrent users

PROJECTS

Grind – Online Coding Platform | [Github](#)

[Link](#)

Tech Stack: React 19, TypeScript, Node.js, Express,
Prisma, PostgreSQL, E2B Sandbox, Turborepo, AWS

July 2024- Current

Developed a full-stack competitive programming platform where users solve DSA problems, join contests, and run code in multiple languages through a secure online compiler.

- Architected full-stack competitive programming platform supporting 500+ registered users and 50+ daily active users with 99.8% uptime
- Engineered RESTful API architecture with Express.js and Prisma ORM handling 100,000+ API calls daily, processing 10,000+ code submissions across 8 programming languages (C++, Java, Python, JavaScript, Go, Rust, Ruby, PHP)
- Implemented secure code execution environment using E2B Sandbox API with containerized isolation, preventing security vulnerabilities and enabling real-time compilation with average execution time under 2 seconds
- Configured CI/CD pipeline with GitHub Actions automating testing, building, and deployment processes, reducing release time from 2 hours to 15 minutes

Flash – AI-Driven Full-Stack Website Generator | [Github](#)

[Link](#)

Tech Stack: Next.js, TypeScript, Node.js, Prisma, PostgreSQL, NextAuth, AWS EC2, Auto Scaling Group, SCP, GitHub Actions

Jan 2025 – Feb 2025

Built an AI-powered platform that lets users **generate and deploy complete web applications** by describing them through natural language prompts.

- Developed AI-driven platform enabling users to generate and deploy complete full-stack web applications in under 3 minutes through natural language prompts, reducing traditional development time by 80%
- Integrated AI-based prompt analysis engine generating production-ready codebases including frontend (Next.js), backend (Node.js + Express), and PostgreSQL database schemas with proper relationships and constraints
- Implemented NextAuth authentication system with OAuth 2.0 and JWT-based session management, supporting Google and GitHub login providers and securing 100+ user accounts
- Automated deployment pipelines with **GitHub Actions**, hosting static builds on **EC2**
- Designed responsive user interface with React, TypeScript, and Tailwind CSS, implementing real-time deployment status tracking and project management dashboard

ACADEMIC ACHEIVEMENTS

- **CS50x: Introduction to Computer Science – Harvard University Completed 10 challenging problem sets and final project covering algorithms, data structures, memory management, and web development**
- **Flutter & Firebase Development – Google Developer Student Club Certified for proficiency in mobile application development using Flutter framework and Firebase backend services**