Ayush Tripathi

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EDUCATION

Rajiv Gandhi Institute of Petroleum Technology   Jais, UP
*(An **Institution of National Importance** along the lines of **IITs**)*
Bachelor of Technology in Computer Science and Engineering; CPI: 8.65*   *Nov 2022 - July 2026*
Central Board of Secondary Education
Intermediate, 2021: 94.2% & Matriculation, 2019: 93.6%

WORK EXPERIENCE

BotMast   Remote (India)
Software Developer Intern   *October, 2024 – December, 2024*

- **Backend Development**: Engineered scalable backend systems, including RESTful APIs and database optimizations, boosting platform performance and reducing response times by 30%.
- **Interface Design and Development**: Crafted modern, responsive user interfaces for client websites using the MERN stack, enhancing usability and driving a 25% increase in client satisfaction.
- **DevOps and System Reliability**: Implemented CI/CD pipelines and automated deployments, ensuring 99.9% system uptime and cutting deployment times by 20% for seamless user interactions.

Vignam Labs Pvt. Ltd.   Delhi, India
Full Stack Developer & Tech Lead (Three.js)   *June, 2024 – August, 2024*

- **Full Stack Development**: Built and maintained 8+ web applications with React, TypeScript, Mantine UI, and MongoDB, optimizing API integration with Node.js and enhancing UI/UX for greater performance.
- **Tech Lead for 3D Projects**: Guided a team of 5 in delivering interactive 3D models and renderings with Three.js and React Three Fiber, elevating user engagement and optimizing performance on AWS-hosted platforms.
- **Project Optimization**: Refined development workflows and bolstered scalability, achieving a 20% reduction in load times by leveraging AWS services and fine-tuning performance.

PROJECTS

Price Comparison Website for Government e-Marketplace | *WON SIH-2023* | ○ GitHub

- **Technology Stack:** Node.js, Express.js, EJS, HTML, CSS, JavaScript, MS-Excel, Bootstrap, Puppeteer, Flask.
- Built a web application that compares 2 lakh+ products on the Government e-Marketplace with top e-marketplaces, achieving 90% product matching accuracy.
- Reduced procurement costs by 25% for 50+ government agencies with real-time price comparisons and data-driven insights.
- Streamlined procurement workflows, cutting decision-making time by 40% and enhancing operational efficiency by 30%.
- Optimized UX and backend, ensuring 99.9% uptime under high traffic of 10,000+ concurrent users.

Titans AI SaaS Platform | Live Link

- **Technology Stack:** MERN Stack, Firebase, Puppeteer, RAG Models.
- Developed a SaaS platform for 50+ businesses, automating customer support and processing 5,000+ queries daily.
- Integrated RAG system, improving response accuracy by 30% and reducing manual intervention by 40%.
- Implemented AI voice agents, enhancing user interaction by 20% and reducing operational workloads by 35%.
- Ensured secure authentication for 5,000+ users, enhancing system scalability by 25% and maintaining 99.9% uptime.

SKILLS

- **Languages**: C/C++, JavaScript (ES6+), TypeScript, Python, HTML5, CSS3
- **Frameworks & Tools**: React.js, Node.js, Express.js, Three.js, React Fiber, MongoDB, Git/GitHub, Next.js, Bootstrap, Mantine UI, Tailwind CSS, jQuery, Docker, Kubernetes
- **Cloud & Deployment**: AWS (EC2, S3, CloudFront, Lambda), Firebase, CI/CD, Heroku
- **Areas of Expertise**: Full-Stack Web Development, RESTful APIs, Web3, Data Structures & Algorithms, Linux, UI/UX Development, Cloud Deployment (AWS, Firebase), Docker, Kubernetes

ACHIEVEMENTS/CERTIFICATIONS

WINNER of the Smart India Hackathon 2023 | *Price Comparison Website for GeM products* | ○ GitHub
IBM Front-End Developer Professional Certificate | Certificate

OTHER ACTIVITIES

Technical Secretary: Spearheaded technical initiatives at *OWASP RGIPT* Student Chapter, leading a team of 5 members in the development and execution of high-impact projects, ensuring seamless delivery of technical solutions.
Technical Team Head: Led technical teams for the *Science & Technology* division of *RGIPT* and *Urjotsav*, driving successful execution of key technical initiatives for both events.