

# Prateek Srivastava

## Software Engineer & AI Enthusiast

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Software Engineer with 2+ years developing scalable applications across frontend, backend, and AI systems using React, Node.js, Python, and machine learning technologies. Proven expertise in software architecture, full-stack development, and delivering high-impact solutions.

## TECHNICAL SKILLS

### FRONTEND DEVELOPMENT:

- React (Hooks, Context, Router) • Next.js
- JavaScript (ES6+) • TypeScript
- HTML5 • CSS3 (Flexbox/Grid)
- State Management (Redux, Context API)
- Responsive Design • Angular

### BACKEND DEVELOPMENT:

- Node.js (Express) • Python
- FastAPI • Django
- RESTful APIs • GraphQL

### DATABASE & STORAGE:

- SQL • NoSQL • Vector Databases
- PostgreSQL • MySQL • MongoDB
- Redis • Database Schema Design
- Query Optimization • SQLAlchemy

### CLOUD & DEPLOYMENT:

- Docker • CI/CD Pipelines
- GitHub Actions • AWS • Vercel

### BUILD TOOLS & WORKFLOW:

- Webpack • Vite • npm/Yarn
- Git Workflows • Package Management
- Code Quality & Linting

### AI/ML & COMPUTER VISION:

- PyTorch • OpenAI Whisper
- MediaPipe • TensorFlow.js
- OpenCV • Machine Learning
- Computer Vision • Natural Language Processing

### SOFTWARE ENGINEERING:

- Software Architecture • Software Development
- System Design • Agile Development
- Test-Driven Development • Jest
- Unit & Integration Testing

## LINKS

🌐 LinkedIn | 🐙 GitHub | 📺 YouTube

## EDUCATION

### UNIVERSITY OF HYDERABAD

M.TECH IN COMPUTER SCIENCE

Dec 2022 | Hyderabad, Telangana

### PSIT KANPUR

B.TECH IN COMPUTER SCIENCE AND ENGINEERING

May 2017 | Kanpur, UP

## WORK EXPERIENCE

### AMLINO TECHNOLOGY LIMITED | SOFTWARE DEVELOPER

Jan 2023 - Present | Delhi, India

- **Led software development** and cross-functional collaboration to engineer reusable frontend components, reducing development time by **40%** across enterprise applications.
- **Architected full-stack infrastructure** with microservices and backend systems, processing 1000+ daily transactions at **99.9% uptime**.
- **Developed responsive web applications** using modern frontend technologies with performance optimization, achieving **60% faster load times**.
- **Built scalable backend APIs** and software systems in Node.js, improving system performance by 35% through software engineering best practices.

### SUGOI LABS PVT. LIMITED | SOFTWARE DEVELOPER INTERN

Jan 2021 - Jun 2021 | Bangalore, Karnataka

- **Contributed to logistics platform** "GoodsKart" development using Python/Django, implementing automation features that streamlined manual processes by **50%**.
- **Developed backend modules** with PostgreSQL and assisted in CI/CD pipeline setup, contributing to system supporting **500+ daily users**.
- **Collaborated with senior developers** in agile environment, learning clean architecture principles and maintaining **95%+ code quality** through comprehensive testing practices.

## PROJECTS

### STORYSIGN ASL PLATFORM | EDUCATION TECHNOLOGY

🐙 GitHub | 🌐 Live Demo

- **Designed and shipped** user-centric ASL learning platform using React (Hooks, Context), FastAPI, MediaPipe for real-time gesture recognition and personalized learning experiences.

### AURA - AI DESKTOP ASSISTANT | AI & AUTOMATION

🐙 GitHub | 📺 Demo Video

- **Innovated** intelligent desktop assistant utilizing Python, PyTorch, OpenAI Whisper with voice activation, computer vision, and macOS automation capabilities.

### CSECATALYST | EDUCATION PLATFORM

🌐 Live Demo | 📺 Demo Video

- **Built and deployed** full-stack study platform serving **2M+ users** using React with Redux state management, Node.js (Express), PostgreSQL database schema design, implementing comprehensive testing with Jest and maintaining CI/CD pipelines for automated deployments.

### EDNCP ALGORITHM RESEARCH | GRADUATE RESEARCH

University of Hyderabad SCIS Lab

- **Researched and analyzed** Artificial Bee Colony Algorithm with Dr. Alok Singh using C/C++, achieving **93% time complexity reduction**.