

Utkarsh Sharma

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EXPERIENCE

Trinity Solutions

May, 2026 – Jun, 2026

Python Full Stack Developer Intern (Project-Based)

Raipur, Chhattisgarh

- Delivered a full-stack web application, developing 3+ core modules for user interfaces and authentication.
- Architected 10+ RESTful APIs to support project-specific data processing and storage requirements.
- Implemented secure authentication and role-based access control (RBAC) workflows supporting 2 distinct user types.
- Executed 4 weekly testing and deployment cycles within a 1-month continuous development timeframe.

PROJECTS

DripRig | AI Virtual Try-On Platform (*FastAPI, Vite, Firebase, Hugging Face*)

Jul, 2026 – Present

- Built a full-stack app (FastAPI, Vite) merging user photos and outfits to generate AI try-ons.
- Optimized backend with Pillow to auto-resize 20MB multi-format inputs to 1024px for Firebase.
- Chained 2 Hugging Face models via Gradio API with auto quota-based fallback for high uptime.
- Engineered an async processing pipeline tracking end-to-end AI generation latency in milliseconds.

The Bill Mate | AI-Powered Expense Management (*FastAPI, MongoDB Atlas, Firebase*)

May, 2026 – June, 2026

- Designed an AI-driven ledger utilizing SambaNova AI, achieving ~90% data extraction accuracy.
- Developed a FastAPI backend integrated with MongoDB Atlas, reducing query latency by 45%.
- Secured 100% of user workspaces and managed session validation using Google Firebase authentication.
- Engineered a Tailwind CSS dashboard to enable automated, 1-click PDF document generation.

Mindful Space | AI-Driven Mental Health Platform (*React, FastAPI, NLP*)

Dec, 2025 – Feb, 2026

- Developed a mental health platform leveraging NLP models for real-time emotional analysis with 80%+ accuracy.
- Integrated an LLM chat microservice via FastAPI, maintaining a response latency of under 2 seconds.
- Implemented 3 core platform modules: user authentication, community posts, and interactive games.
- Architected a responsive React frontend, improving component rendering speeds by 30%.

SKILLS

Languages: Python, Java, C++, SQL

Backend: FastAPI, Flask, REST APIs, Authentication (JWT)

AI/ML: LLM APIs, Prompt Engineering, Hugging Face Models, AI Integration, RAG

Frontend: React.js, JavaScript, HTML, Tailwind CSS, Vite

Databases: MongoDB, PostgreSQL, MySQL, Supabase

Tools & Concepts: Git, GitHub, Firebase, Render, Gradio API, OOP

CERTIFICATIONS

- Google IT Support Professional Certification – Google
- Applied Machine Learning in Python – Coursera
- Cloud Computing (Elite + Silver) – NPTEL
- Introduction to IoT (Elite + Silver) – NPTEL

EDUCATION

Vellore Institute of Technology, Bhopal

Aug, 2023 – May, 2027

B.Tech in Computer Science and Engineering (Specialization in AI & ML)

CGPA: 7.89/10