

Uttam Jangir

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EDUCATION

Birla Institute of Technology and Science (BITS Pilani)

Pilani, Rajasthan

Bachelor of Engineering in Computer Science

Aug 2024 – May 2028

- **Relevant Coursework:** Algorithm Design, Software Design Principles, Relational Databases, Web Design

TECHNICAL SKILLS

Languages: Java, TypeScript, JavaScript, Python, Bash

Backend: Spring Boot, Node.js, REST APIs, WebSockets, JWT, Role-Based Access Control

Databases: PostgreSQL, Prisma ORM

Cloud & DevOps: Docker, Azure, Redis, CI/CD Pipelines, Git

Integrations: OAuth 2.0, YouTube Data API, LLM APIs, Resend

Frontend: Next.js, React (supporting role)

PROJECTS

Projectile Simulation Engine | *Spring Boot, Docker, Azure, CI/CD* | [Live](#) [GitHub](#)

- Built a high-performance physics trajectory computation backend using Spring Boot, handling real-time simulation requests with low-latency responses.
- Containerized the application with Docker and deployed to Azure; implemented automated CI/CD pipelines to streamline build and release cycles.
- Exposed a clean REST API consumed by a React frontend for real-time 2D trajectory visualization.

YouTube Broadcaster | *Next.js, Node.js, YouTube Data API, OAuth 2.0, Scheduled Jobs* | [GitHub](#)

- Engineered a multi-account video upload and scheduling platform integrating YouTube Data API v3 with OAuth 2.0, supporting concurrent channel management.
- Built an automated job scheduler for queued video publishing and implemented API rate-limit handling to ensure reliable operation under quota constraints.
- Developed a unified cross-channel analytics dashboard aggregating performance metrics across multiple accounts.

GitPulse | *Next.js, GitHub REST API, Canvas API* | [Live](#) [GitHub](#)

- Built a live GitHub activity visualiser that polls the public event stream every 8 seconds with graceful rate-limit fallback, rendering results on a 3D globe via a 6,500-point Fibonacci lattice using raw Canvas API.
- Implemented per-country activity heatmaps with animated intensity blobs and shareable deep-link URLs (e.g. `?repo=vercel/next.js`).

ACHIEVEMENTS & EXTRA-CURRICULAR

Web Design Competition: Won 1st place in a competitive web design contest organised by the university's Web Design Club; recognised for UI/UX execution and technical implementation.

Open Source: Active GitHub profile with independently designed and deployed full-stack & backend projects (github.com/Noname1122Q).