

Anuvesh Chilwal

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EDUCATION

- Birla Institute of Applied Sciences**

Bhimtal, India

Bachelor of Technology in Computer Science; GPA: 7.3/10.0

2023 – 2027 (Expected)

PROJECTS

- **Real-Time Chat Application with WebSocket (“ConnectHub”)**: Built a scalable real-time messaging platform using Node.js, Express, Socket.io, and React. Executed user authentication, message persistence with MongoDB, typing indicators, and online status tracking. Features include room-based conversations, message encryption, and responsive design with 99.9% uptime.
- **E-Commerce Platform with Payment Integration (“MarketPlace Pro”)**: Enhanced a full-featured e-commerce web application using React, Node.js, and Express with secure payment processing via Stripe API. Applied user authentication, shopping cart functionality, order management, and admin dashboard. Features include inventory tracking, email notifications, and mobile-responsive design with PostgreSQL database.
- **Cloud-Native Web App with CI/CD Pipeline (“DeployMaster”)**: Improved a full-stack JavaScript web application using Node.js, Express, and React with a systematized CI/CD pipeline. Enforced GitHub Actions for continuous integration, computerized testing, code quality checks, and zero-downtime deployments to Vercel. Features include health check endpoints, system monitoring, and comprehensive documentation with 95% test coverage.
- **Weather Analytics Dashboard with Cloud Integration (“ClimateInsight”)**: Built a responsive weather analytics platform using Python Flask, HTML/CSS/JS, and REST APIs. Integrated with AWS Lambda for serverless data processing and PostgreSQL database for metrics collection. Features include real-time weather monitoring, performance optimization, and a mobile-responsive SaaS-style dashboard with 99% uptime.
- **Student Portal with Python & Cloud Storage (“AcademicVault”)**: Created a comprehensive student management system using Python Django, HTML/CSS/JS frontend, and AWS S3 for cloud storage. Established user authentication, grade tracking, and mechanized email notifications. Features include database optimization, security engineering practices, and a scalable system architecture with 98% reliability.
- **Low-Latency News Aggregator with Microservices (“InfoStream”)**: Built a high-performance news aggregation platform using Node.js microservices architecture and Docker containers. Deployed REST APIs for data processing, Redis caching for low-latency responses, and MySQL database clustering. Features include real-time content delivery, scalable system design, and Agile development practices with 99.8% uptime.
- **Automated Testing Framework with CI/CD (“QualityGuard”)**: Expanded a comprehensive testing automation platform using Python, Bash scripting, and Git workflows. Orchestrated continuous integration pipelines, systematized test execution, and reliability engineering practices. Features include Linux-based deployment, database testing, and performance monitoring with 95% test coverage and improved development velocity.

SKILLS

- **Languages:** JavaScript, Python, Java, C++, SQL, HTML, CSS, Bash **Frameworks:** React, Node.js, Express, Flask, Django
- **Databases:** MongoDB, PostgreSQL, MySQL, Redis **Tools:** Git, Docker, AWS Lambda, GitHub Actions
- **Methodologies:** Agile, CI/CD, Microservices, Test-Driven Development