Harshit Chugh

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Education

VIT Bhopal, Bhopal, MP	**Expected May 2027**
Bachelor of Technology in Computer Science (AI-ML)	CGPA: 9.05/10.0
Amity International School, Mayur Vihar, Delhi	**May 2023**
CBSE Class XII	83%
K.R.Mangalam World School, Ghaziabad, Uttar Pradesh	**May 2021**
CBSE Class X	95%

Technical Skills

- **Programming Languages:** C++ (Primary), Go, Python, JavaScript
- **Backend Technologies:** REST APIs, Node.js, JWT & API Key Authentication
- **Databases:** PostgreSQL, MySQL, MongoDB
- **Frameworks & Libraries:** React, Express.js, Tailwind CSS
- **Cloud & DevOps:** AWS (ECS Fargate, S3), Docker, Git

Projects

RSS-Aggregator - Feed Platform — **Jul 2025 – Oct 2025**
Tech Stack: Go, PostgreSQL, Chi Router, SQLc, API Authentication — GitHub Repository

- Architected high-performance Go backend serving 10+ REST API endpoints with rate limiting and API key authentication
- Designed optimized PostgreSQL database schema with efficient many-to-many relationships for user subscriptions
- Created automated background worker that reduced manual feed refresh requirements by 90% through RSS parsing
- Implemented type-safe database operations generating 15+ SQL queries, eliminating runtime SQL errors completely

HCStream - AI-Powered Media Platform — **Mar 2025 – Jun 2025**
Tech Stack: React, Node.js, MongoDB, Docker, AWS ECS, OpenAI Whisper — GitHub Repository

- Built full-stack media platform with JWT authentication implementing role-based access control for users
- Deployed containerized microservices on AWS ECS Fargate with application load balancer, ensuring 99%+ uptime
- Integrated OpenAI Whisper API for automated audio transcription, processing user-uploaded video/audio content
- Established CI/CD pipeline using Docker containerization, reducing deployment time by 85% across environments

HCenzo - Property Booking Platform — **Oct 2024 – Feb 2025**
Tech Stack: React, Node.js, MongoDB, JWT, Vercel — GitHub • Live Demo

- Created full-stack Airbnb-style platform featuring property listing, booking system, and user management
- Engineered robust REST API with comprehensive CRUD operations and JWT-based session management
- Built responsive React frontend with 10+ reusable components ensuring optimal user experience on all devices
- Launched frontend on Vercel platform achieving 99%+ uptime with production-ready backend configuration

Achievements & Leadership

- **2× National Hackathon Finalist** - Smart India Hackathon (2023, 2024), top 5% nationwide selection among 10,000+ competing teams
- **Top 10 Finish - LackCity Hackathon 2024** - Secured 8th position among 290+ teams by developing financial technology MVP solution
- **Microsoft Azure Data Fundamentals (DP-900)** - Certified in core data concepts, database management, and analytics on Azure cloud platform
- **Placement Cell Coordinator** - Organized and managed TCS NQT examinations for 450+ computer science students, handling technical setup and logistics
- **Open Source Contributor** - Active Hacktoberfest 2024 participant with 4+ successfully merged pull requests to external open-source projects