# Dev Arora

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## Education

**VIT Bhopal University, Madhya Pradesh** *Sept 2022-2026*
B.Tech in Computer Science
Cumulative GPA: 8.48 / 10

**Greenway Modern School, Delhi**
CBSE (12th): 86% *July 2021*
CBSE (10th): 94% *May 2019*

## Skills

**Programming Languages:** C++ (Proficient), Python, JavaScript (ES6+), TypeScript
**Web Development:** HTML5, CSS3, Tailwind CSS, Bootstrap, EJS, React.js, Node.js, Express.js, RESTful APIs
**Tools & Platforms:** Git, GitHub, VS Code, Postman, PDFKit, Unit Testing, Windows, Unix/Linux (basic scripting)
**Databases & AI/ML:** MongoDB, MySQL, Scikit-learn, Pandas, Matplotlib
**Core CS Subjects:** Computer Networks, Operating Systems, Object-Oriented Programming, Database Management System

## Projects

**PuchAI-Concurr** | Demo | GitHub *Aug 2025*

- Built a real-time **AI-powered** currency converter using an **MCP(Model Context Protocol)** server, **integrating with Puch.ai** to deliver instant exchange rate responses **directly on WhatsApp**, serving **150+ global currencies** with millisecond-level latency.
- Leveraged RESTful API integration via **ExchangeRate-API** to fetch live forex data, processed via MCP for high-speed conversions, **reducing manual lookup time by 90%.**
- Optimized performance by caching frequent conversion pairs, **cutting API calls by 40%, and ensuring 99% uptime** for seamless financial assistance on demand.
- **Technologies: Python, MCP Server, ExchangeRate-API, Git, GitHub**

**drAIpe** | Live | GitHub *July 2025*

- **Integrated** the **Gemini AI API** to power a chatbot that delivers **real-time, personalized outfit recommendations** based on user preferences, style trends, and live weather data.
- **Engineered seamless communication** between **frontend and AI backend** through **robust API endpoints**, enabling adaptive product suggestions and contextual interactions.
- Developed a **full-stack fashion e-commerce platform** using **React.js, Node.js, and MongoDB**, featuring **responsive UI**, secure login, wishlist, and smart cart functionality.
- **Technologies: React.js, Node.js, Express.js, MongoDB, JavaScript (ES6+), HTML5, CSS3, Gemini AI API, Git, GitHub**

**Finance and Expense Tracker** | GitHub *Oct 2024 – Apr 2025*

- Led a **9-person Agile team** to design and deploy a **full-stack** finance tracker with a microservices architecture, leveraging Node.js, Express.js, and MongoDB to handle **20+ concurrent users**.
- Redesigned **RESTful APIs** to optimize database queries and caching, improving backend **scalability by 30%** (measured via AWS Load Testing).
- Designed, developed, and **deployed a dynamic dashboard** using React.js, implementing real-time expense visualizations (interactive charts, spending trends) and **optimizing API calls** to slash user **data retrieval time by 40%.**
- **Technologies: Node.js, Express.js, MongoDB, React.js, JavaScript (ES6+), HTML5, CSS3, Git**

## Achievements

**Internal Round Finalist, Smart India Hackathon 2023** | Certificate
- Competed among top teams in a national-level hackathon, showcasing problem-solving skills and innovative thinking in a high-pressure environment.

**3rd Place Winner, Ideathon – Health-o-Tech Club, VIT Bhopal**
- Secured a podium finish by presenting a cutting-edge healthcare solution, demonstrating creativity and technical proficiency in a competitive event.

## Certificates

- Cloud Computing NPTEL Certification | Certificate *Apr 2024*
- Simulink Onramp MathWorks Certification | Certificate *Oct 2022*
- Matlab Onramp MathWorks Certification | Certificate *Sep 2022*