Armaan Mishra

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Education

Vellore Institute of Technology, Bhopal	Expected September 2025
Bachelor of Science in Computer Science (current GPA: 7.98)	*Bhopal, Madhya Pradesh*
Virendra Swarup Education Centre	July 2020
10+2 ISC (90.7% in 10th Grade, 87% in 12th Grade)	*Kanpur, Uttar Pradesh*

Projects

Grainify | *Next.js, Tailwind CSS, TypeScript, Web Workers*   GitHub | Demo
- Developed a **web-based image processing app** for adding vintage effects to photos, resulting in a user base of **150+** within the first month.
- Implemented **45+ image presets** and multiple film grain options, grayscale conversion, and various image export formats, enhancing user engagement by **40%**.
- Optimized performance using **web workers**, reducing image processing time by **40%**, and received positive feedback from **90%** of users post-deployment on Vercel.

Spotify Music Cards | *Next.js, Tailwind CSS, Spotify Web API*   GitHub | Demo
- Built a web app to display user's top tracks/artists from Spotify in an aesthetic format, attracting **40+ users** in the first month.
- Implemented **unique features** not available in the official Spotify app, and secured an **API quota extension** from Spotify after positive reviews.
- Utilized **OAuth 2.0 authentication** for secure access to Spotify user data, ensuring data privacy and security.

PassProtect | *React.js, Firebase*   GitHub | Demo
- Created **PassProtect**, a cloud-based password manager with **client-side 256-bit AES encryption**, with multiple features.
- Developed features for managing passwords, including a **random password generator**, improving password security for **90%** of users, with **real-time database management** and **user authentication**.
- Leveraged **Firebase** for **scalable backend infrastructure**, ensuring reliable data storage and fast access.

Technical Skills

Languages: JavaScript, TypeScript, Python, Java, C++, Go Lang
Frontend: React.js, Next.js, Tailwind CSS, jQuery, Bootstrap, HTML, CSS
Backend: Node.js, Express.js, Flask, React Server Actions
Databases: SQL, NoSQL, PostgresSQL, MongoDB, Firebase, Supabase
Cloud & DevOps: Amazon Web Services, Docker, Git, Firebase, Heroku, Vercel, Netlify
Other Technologies: RESTful APIs, WebSockets, Web Workers, HTML Canvas, CMS, UI Libraries
Concepts: Data Structures and Algorithms, OS, DBMS, Version Control Systems, Computer Networking, MERN Stack
Certifications: Cloud Computing (NPTEL), The Bits and Bytes of Computer Networking (Coursera)

Achievements

Successfully completed Buildspace's Nights & Weekends S5, where I built Grainify. Out of **70,000** participants, **5,194** successfully finished the program.

Soft Skills

Interpersonal: Communication, Teamwork, Leadership
Professional: Problem-solving, Time Management, Adaptability
Creative: Innovative thinking, Attention to detail

Social Engagements

Graphic Designer : at Insight Club of VIT Bhopal
Sports-Engagements: Chess , Cricket, Basketball