

Vatsala Budur

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ACADEMIC PROFILE

Degree/Certificate	Institution	Percentage/CGPA	Year
B.E	Computer Science Engineering, MVJ College of Engineering	8.99	2026
KDPUE (XII)	PCMB, East Point Pre-University College	91.66	2022
KSEEB (X)	Sri Aurobindo Vidya Mandir	99.36	2020

SKILLS & INTERESTS

- **Programming Languages:** Python, Java, Javascript, C++, SQL
- **Tools:** [p5.js](#), Streamlit, RESTful APIs, MySQL, Processing, SpringBoot, Git, Arduino, Docker, OpenCV, Figma
- **Skills:** Problem Solving, Product Prototyping, Web Dev, Game Dev, Public Speaking
- **Interests:** Creative Tech, Video Editing, Quantum Mechanics, Design Theory.

INTERNSHIP/WORK EXPERIENCE

Alopa Herbal Healthcare Pvt. Ltd. Jul. 2025 - Aug 2025
Front End Dev + UI/UX Intern *Onsite*

- Built [alopaherbal.com](#) from scratch.
- Ideation, design, & end-to-end product management for Alopa's Ayurvedic e-commerce platform.
 - Stack: Liquid, JSON, CSS, Mailchimp, HTML, JavaScript, Photoshop, Canva.

Neodiv Solutions/huxler.app Jul. 2024 - Present
Co-Founder, Growth, Community & Product, Huxler *Hybrid*

- Led product strategy and roadmap, launching key features and building a strong early-adopter community.
- Drove successful go-to-market and organic growth, achieving rapid user signups pre-launch.

PROJECTS

[ConsoleFPS](#) | C++, Windows Console Host

- Built a console based FPS (first person stroller) game built with **pure C++** played on **Windows Console Host**.
- Used **Screen Buffer** to simulate First Person POV with **ray tracing** and shading.
- Implemented WASD controls, **strafing mechanics** and **collision detection**.

[VatChain](#) | Java, BouncyCastle, GSON

- Built an CLI based interactive Blockchain built using **Java** and **SHA-256 hashing**, and **Proof Of Work** for chain validity.
- Implemented Wallets to store funds and track transactions, Transactions to send and receive funds, StringUtils for helpers.
- Used **BouncyCastle's ECDSA** for generating and verifying signatures.

[FaceSynth](#) | Next.js, Three.js, PostgreSQL, Prisma

- Built a Full Stack interactive web tool for facial mesh capture using **MediaPipe**, **JSX**, **Next**, **Three**, **PostgreSQL** for accessible and customized facial prosthetics.
- **Designed Pipeline from scratch** for mesh to deformation to 3D print from scratch.
- Implemented key features like feature specific deformation controls, mesh to solid conversion for STL exports.

[Realtime Video to ASCII Text](#) | p5.js, HTML, CSS

- Built a web tool **p5.js** that converts images and videos into **ASCII-art** renderings dynamically in the browser.
- Implemented "Capture", "Copy", and "Invert" functionalities with **Javascript** for ease of use.

[SuperScraper](#) | Python, BeautifulSoup, Requests

- Built a Price Scraping and comparison tool with **BeautifulSoup**, **Chrome Webdriver Manager**, **Requests**, and **Selenium**.
- Created a clean dashboard to compare and highlight lower price per gram of product and missing products with **Streamlit**.

POSITION OF RESPONSIBILITY

TEDxMVJCE Dec. 2022 - Nov. 2025

- **Licensee and Organizer:** TEDxMVJCE 2025 team, managed speaker and sponsor curation, and headed video editing and cross-team event execution.

Google Developer Student Clubs, MVJCE Sept. 2023 - Feb. 2025

- **Speaker** at "Flutter LMAO", UI/UX basics and Designing App Interfaces | December 2024
- **Speaker** at "Sigma at Figma", Design Theory | July 2024
- **Speaker** at "Intro to ML", How Neural Networks Work | February 2024
- **Speaker** at "Intro to Android Development", Basics of Kotlin | December 2023

HONORS AND ACHIEVEMENTS

- Placed **Third** at **Innovex'25** for FaceSynth | November 2025
- Received **Special Prize in Health and Humanities Category** at **Techkubik** for FaceSynth | December 2025