

ARYAN BABURAJAN

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EXPERIENCE

Ducktape Creator

2021 – present

- Built a robust 3d game engine in C++ from scratch.
- Implemented a real-time renderer using OpenGL, with prior rewrites in Vulkan for performance optimization.
- Added native C++ DLL scripting support to extend functionality and enable modular development.
- Developed an ImGui-based editor for in-engine debugging and content creation workflows.

SerenityOS Contributor

Mar 2024

- Learned about character encoding standards like Unicode and improved Unicode support from ASCII for several native applications.
- Ported a few applications to use the newly developed GML - Serenity's GUI Markup language.

TinkerPlay Tutor

2025
Thrissur, India

- Held a workshop on the basics of Game Development to a room of first and second years using Processing5.js.
- Super proud about having taught them the joy of reading documentation, coding, and experimenting in their projects.

KochiFOSS Speaker

2022
Kochi, India

- Delivered a talk to 100+ college students as the youngest student there from highschool.
- Presented my project, the Ducktape Game Engine and talked about my experience in building a game engine from Scratch.

TECHNICAL SKILLS

- **Languages:** C++, C, Python, JavaScript, C#, TypeScript
- **Graphics / GameDev:** OpenGL, Vulkan, EnTT, Dear ImGui, Unity
- **Web / Backend:** React, Next.js, Nest.js, Express, Node.js, Kinde, Resend
- **Tools:** Git, CMake, Blender, Netlify, Heroku, Vercel, MySQL, MongoDB, WebSockets

PROJECTS

- **Mirage** - A personalized version of ProductHunt.com that caters to the user's interests with a user authenticated product dashboard and an email newsletter system to periodically send emails through cron jobs. [GitHub](#)
- **DirectShare** - File transfer service using Express.js, EJS, and Netlify. Allowed file transfer between clients worldwide. [GitHub](#)
- **Plaintext** - Minimalist text-only browser in Python. [GitHub](#)
- **Godspeed** (incomplete) - Room-based file sharing using WebSockets, Express.js, and React. [GitHub](#)
- **Robot** - Web crawler in Python. [GitHub](#)
- **Burrito** (incomplete) - Note-taking app blending Notion and Excalidraw. Built a canvas system for text and image transforms using Next.js and React. [GitHub](#)
- **Chaos Car Destruction** - Physics-based destruction simulator developed with Unity. [Website](#)

EDUCATION

Christ College of Engineering

Bachelor of Technology in Computer Science and Engineering

2025 – 2029
Kerala, India