

Advait Pandharpurkar

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Passionate developer from pune with special interest in rust, systems software, robotics and distributed systems.

Education

Degree	Institute/Board	CGPA	Year
B.E Computer Engineering	Ajeenkya D. Y. Patil School of Engineering, Pune	7.3 (Current)	2021-Present

Activities: Google DSC'23 Programming Lead, [ByteWatch](#) Leader, Vice President (ACE), Student Coordinator(RIEC).

Experience

- **RigBetel Labs LLP** (DEC23-JUL24)
Software Engineering Development - Intern Pune, (On-site)
 - Independently Build, **Robonet-rs(Rust Version)** and **Robonet**, a suite of Networking tools for RBL Robots. (Pi and NUC Based).
 - Rewrote **TortoiseBot Firmware in Rust**, using rclrs and ros2_rust. a wrapper for wpa_supplicant, making the /cmd_vel calls 250% faster.
 - Wrote a topic in rust that gives realtime network health info on a I2C display through a robonet-daemon.
 - Built a **WebRTC** Based Robot TeleOp and Multi Video channel middleware for ROS2 based robots.
 - Worked on controlling remote robots, using [Zenoh](#) and **MQTT** for **ROS2**.
 - Wrote an EncoderManager Library in **Embedded C++** for getting real time ticks of Motors.
- **Vanderlande (A Toyota Logistics Company)** present (AUG-2024)
Software Engineer - Intern Pune, (On-site)
 - Joined as a **Software Engineering Intern** for the W-PLAT team violet, Worked on writing a **gRPC** implementation for cf-ref modules/ITMs.
 - Worked on setting up a Local **CaRE**(for W-PLAT) recipe simulator, and shadowed a senior tester.
 - Worked on **clearing-flow** in Warehouse Platform, and fixed the Pact between clearing flow and GTPs.

Key Projects

- * [MCServer](#)- [100+ GitHub Stars] Command Line Tool to build, generate and deploy Minecraft Servers on GCP.
 - Currently Being **re-written in Rust**. Allows you to deploy and customize minecraft server with specific req.
 - Fully Deployable MCServer on GCP-Shell or GNU/Linux based computer with 250+ supported servers.
 - Leading a passionate [discord](#) community of **300+** members with 10+ developers making the project better.
- * [Ram-Snapper](#)- USB-Deployable Ram Dump Acquisition and analysis tool.
 - Lead a team of developers for the Kavach Hackathon.
 - Built a Cross Platform Ram Dump Acquisition tool using the *Rust* Programming Language.
- * [Pastry-Crust](#)- A Complete (Backend+Frontend) of [PasteBin](#) Type Website
 - Used **Actix-Web** as the Web Framework to build the backend services.
 - TailwindCSS, and rusqlite database used to store the text data.
- * [MDM](#)- A Blazingly fast **Git** Based *Minimal Diary Manager*.
 - Command Line Application to store text based data synced with a github repository, used [libgit2](#).
 - On each change, it syncs the diff with the git repository with a custom message, written in *Rust*.

Technical Skills

- Programming: Rust, C/C++, Python, Embedded C, Bash & POSIX Shell Scripting, Go, Zig.
- Databases and related tools: RocksDB, SurrealDB, Postgresql, rusqlite(sqlite), Yaml, Toml & Json.
- Libraries/Frameworks: Actix-web, Tokio-rs, Rocket, ZStd, AES, Vulkan & OpenGL.
- Others: MicroControllers and SBC's, GNU/Linux, Docker, Kubernetes, VCS(Git), Game Engine Dev.

Honors & Awards

- 1st Runner up in Kavach National Cyber Security Hackathon, @ AMC BANGALORE.
- 2nd Runner up in MKCCC's Competitive Coding Competition @ CUMMINS PUNE.
- 2nd Prize in ADYPSOE's PBL Competition (Built Spyder Net). @ Lohegaon SOE Pune.
- 2 Times Government Scholarship Examination Scholar. (4th and 206th Rank respectively).

Interests

- Making Projects & Management, Organizing Events, Chess, [WM Ricing](#), Public Speaking.
- Producing Software and streaming the entire process on my [YouTube](#) channel.