

Brahmajit Das

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Work Experience

SUSE Linux GmbH

Linux Developer L3 Support

Remote
May 2023 — Present

- Analyzing issues in various SUSE-supported products, while focusing on Linux Kernel
- Fixing bugs either on my own or in cooperation with subject matter experts
- Fixing code defects and publishing patches
- Coordination of, and active involvement in, bug-fixing process

Google Summer of Code 2023

Student Developer at Gentoo Linux Foundation

Remote
May 2023 — August 2023

- Patching packages to ensure C99 compatibility (Modern C standard)
- Ensuring packages are C23 compatible
- Patching and testing packages against llvm profile of Gentoo
- Final work report

Google Summer of Code 2022

Student Developer at Gentoo Linux Foundation

Remote
June 2022 — September 2022

- Porting GNOME Desktop and related packages for Gentoo's musl profile
- Fix other musl related bugs
- Actively participate in release engineering and GRS project
- Final work report

Lifespark Tech, IIT Bombay

Firmware Developer

Remote
September 2021 — April 2023

- Primary embedded developer of project WALK based on ESP32
- Implementation of inter-device communication using wireless protocols (WiFi, BLE, MQTT)
- Ensuring firmware security using Secure Boot and encrypted flash storage
- Develop and architect backend infrastructure for remote debugging, CI pipeline and OTA updates using AWS

Sironaaz Lab

Embedded Systems Engineer, Intern

On site
May 2021 — September 2021

- Porting existing system for different μ -processors
- Integration of decoupled web UI instance with hardware backend

Education

Gurudas College

B.Sc. with Honors in Computer Science; CGPA: 7.5

Kolkata, India
2018 — 2021

Core Technical Skills

Programming Languages: C, C++, \LaTeX , Python

Tools: Git, GitLab, Docker, GDB, debuginfod

Platforms: Linux, BSDs, RaspberryPi

Open Source Contributions

Gentoo Linux: Neovim and LXD package maintainer, part of QA Team for GNOME Desktop environment. Provide other minor fixes from time to time. [Link to all my contributions](#)

Blender: Patching blender to build on musl libc. [GitHub commits](#)

MoarVM: After finding out that it was not being built with Clang 16, due to incompatible function pointer as Clang 16 enabled -Werror=implicit-function-declaration by default. See [commit 871f7bc](#).

Achievements

HacktoberFest 2020: Among 70,000 participants, awarded goodies and cash prize.

College Seminar: First position in college seminar. Using Arduino and HC SR04 module, created a sonar with GUI feedback.