

Brahmajit Das

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Work Experience

SUSE Linux GmbH

Linux Engineer L3

Remote

May 2023 — Present

- Perform Analysis and provide resolution of code defects in various SLES
- Backporting and bug-fixing of security issues(CVEs) primarily in Linux Kernel and CIFS subsystem.
- Participate in code review and patch submission upstream
- Package maintainer of oracleasm and orarun in SLES

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 Technologies, 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 (BLE, MQTT, WiFi)
- Ensuring firmware security using Secure Boot and encrypted flash storage
- Architect on-device testing by implementing unit testing and mocks (MPU, Battery, and Storage)

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 with Maths and Statistics; CGPA: 7.5

Kolkata, India

2018 — 2021

Core Technical Skills

Programming Languages: C, C++, x86 Assembly, Python, Java

Tools & Technologies: Git, Docker, GDB, debuginfo, eBPF, LivePatching, LLVM, QEMU, Buildroot

Platforms: Linux, BSDs, RaspberryPi

Architectures: x86, ARM, ESP32, STM32

Open Source Contributions

Linux Kernel: Contributions by me

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](#).