

# Brahmajit Das

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## Work Experience

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### SUSE Linux GmbH Linux Engineer L3

Remote  
May 2023 — Present

- Debugging software and fixing problems, eventually in cooperation with upstream developers, integrating the software into distribution
- Responsible for implementation of SUSE-specific features and backporting of upstream patches into released (older) products
- 100% of P0 and P1 incidents are accepted and acted upon within 1 business day
- 87% of incoming incidents are accepted within 1 business day
- 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
- Closed 80% packages in the C99 Gentoo bug tracker
- 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
- Implemented inter-device communication using wireless protocols (BLE, MQTT, WiFi)
- Ensuring firmware security using Secure Boot and encrypted flash storage
- Setup and Implemented 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  $\mu$ -processors
- Integration of decoupled web UI instance with hardware backend

## Education

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Gurudas College  
B.Sc. with Honors in Computer Science with Maths and Statistics; CGPA: 7.5

Kolkata, India  
2018 — 2021

## Core Technical Skills

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**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/Xtensa, STM32

## Open Source Contributions

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**Linux Kernel:** Contributions by me

**Gentoo Linux:** Neovim and LXDE 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](#).