

# Brahmajit Das

🌐 listout.xyz — ✉ brahmajit.xyz@gmail.com — 📍 listout — 🔄 listout — 📱 brahmajit — 🏠 Bangalore, India

## Work Experience

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### SUSE Linux GmbH

Linux Developer L3

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  $\mu$ -processors
- Integration of decoupled web UI instance with hardware backend

## Education

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### Gurudas College

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

Kolkata, India  
2018 — 2021

## Core Technical Skills

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

**Tools:** Git, GitLab, Docker, GDB, debuginfod

**Platforms:** Linux, BSDs, RaspberryPi

## Open Source Contributions

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**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

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**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.