

# Arun Mani

Tamil Nadu, India | [j.arunmani@proton.me](mailto:j.arunmani@proton.me) | [github.com/arun-mani-j](https://github.com/arun-mani-j)

Software Engineer specializing in Linux mobile ecosystems, system-level components, and open-source development. Core contributor to Phosh ecosystem with deep expertise in Rust, C, and GTK. Experienced in bridging low-level AI runtimes with modern JavaScript environments and implementing cross-platform multimedia pipelines.

## Experience

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### Software Services, Tether

May 2024 – Present

Software Engineer

#### Phosh

- Core contributor to Phosh, a phone shell to improve the Linux experience on mobile devices and tablets.
- Developed XDG Desktop Portal Phrosh, a Rust based portal for Phosh to handle system requests like file selection, user information etc.
- Added support for custom quick-setting and status-icon plugins, allowing for end-user shell customization.

#### AI ecosystem

- Interfaced MLC LLM with the Bare JS runtime, enabling LLM models to run across Windows, macOS, Android, and iOS.
- Added GStreamer support to a Whisper-based transcription library to enable on-the-fly audio decoding.

### PearTree (Merged with Tether)

Jan 2024 – Apr 2024

Software Development Engineer

- Implemented application grouping in Phosh, allowing users to organize apps into custom folders.
- Rewrote the quick-settings panel in Phosh to be responsive, ensuring it adapts to different mobile screen sizes and orientations.

### PearTree

Aug 2023 – Dec 2023

Software Development Engineer Intern

- Built the Wi-Fi selection interface in Phosh, allowing users to choose access points directly from the quick-settings menu.

## Education

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### B.E. Computer Science Engineering

2024

Anna University Regional Campus, Coimbatore

*First Class with Distinction.*

### Class XII CBSE

2020

Kendriya Vidyalaya Mandapam

*Aggregate: 95.2% (476/500).*

## Technical Skills

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<b>Programming</b>	Rust, C, Python, TypeScript, JavaScript.
<b>Frameworks</b>	GTK, GLib, GStreamer, FastAPI, Vue, Nuxt.
<b>Tools</b>	Podman, PostgreSQL, SQLite.
<b>Languages</b>	English, Tamil, Hindi.
<b>Soft skills</b>	Technical writing, open source collaboration.

## Books

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- **Problem Solving with Python Programming** Dr. Preethi J, Akila K and Arun Mani J; ISBN: 978-93-88005-48-7; Yes Dee Publishing Pvt Ltd.

## Achievements

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- **Winner, Safetython (2023)** Awarded by Uyir Foundation and Coimbatore City Police for an AI-based traffic management software proposal.
- **Winner, Road Safety Ideathon (2023)** Awarded by KPR Institute of Engineering and Technology for a black-box based accident analysis system concept.
- **Best Student Award (2022)** Awarded by Anna University Regional Campus Coimbatore for overall performance in the B.E. CSE 2020 batch.