# MEET SONEJI

*Updated November 2026*
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GitHub

## EDUCATION

**Politechnika Warszawska** (Warsaw University of Technology) **2022–2026**
**BSc in Computer Science**, Computer Systems and Networks Warsaw, Poland

*BSc thesis: Pax, a compiler for a custom designed statically typed programming language.*

## EXPERIENCE

**Software Engineer Intern**, Dot N Pixel Sp. z o.o. **Apr 2026 – Jun 2026**

- Built a Node.js/Sharp engine that rasterizes SVG templates into PNG and JPEG posters.
- Sustained 13 images per second at full quality, flat from 4 to 2048 concurrent requests.
- Replaced a browser-based renderer, cutting render time and memory use by more than 10x.
- Cached backgrounds and de-duplicated fetches, lifting repeat renders to 37 per second.
- Wrote an auto-fit text engine that wraps, shrinks, and truncates copy to fit any box.
- Built a Fabric.js designer that marks text layers as variables and saves templates.
- Exposed an on-demand render API that takes per-request text and background parameters.
- Automated Apache Bench load sweeps and unique-input ceiling tests to catch regressions.

## PROJECTS

### Tinybin.dev (Website)

I run a website where I commercially distribute my Windows programs. Each app is free to download: **FlowLite** for fast file, app and settings search, **TinySpacer** with five switchable window workspaces, and **PdfDiff** for side-by-side PDF comparison. The site has achieved over 100 downloads so far.

### Open Source Projects (Selected)

9/2025 – 9/2026 **Pax: Compiler for a Statically Typed Language** GitHub

- Built Pax, a small language and compiler that catches type errors before programs run.
- Wrote the compiler frontend and made its internal data structures faster.
- Added a checker that catches type mismatches and explains them clearly.

2026 **Browser LLM Agent** GitHub

- Built a coding agent that drives browser-based chats through Playwright, with no API key.
- Runs the model's shell and file actions locally and feeds results back until done.
- Filters sensitive data and requires approval before any write or shell command.
- Kept all code, files, and credentials on the user's own machine.

2026 **Road Sign Classification** GitHub

- Built a traffic-sign classifier that recognizes 43 sign types from real road images.
- The custom model reached 94.34% accuracy, beating a traditional approach on lighting and blur.
- Showed that a small custom network handled varied road conditions well.

3/2026 **Sports Event Calendar** GitHub

- Built a sports event calendar where users can browse, open, and create events.
- Designed the database so events, sports, teams, and venues stay consistent.
- Added validation and duplicate checks so repeated events reuse existing data.

10/2024 – 2/2025 **Library Management System** GitHub

- Built a library system for tracking books, members, and borrowing history.
- Added secure sign-in, role-based permissions, and a responsive interface.
- Tested error handling so failures stayed clear and predictable.
- Kept member data protected while giving staff the access they needed.

3/2024 **Huffman Coding** GitHub

- Implemented Huffman coding to shrink text files by giving common characters shorter codes.
- Compressed and restored files exactly, then measured compression ratios to confirm correctness.
- Kept compressed files recoverable without losing data.

## TECHNICAL SKILLS

- **Languages:** C/C++, Python, SQL (SQLite, Oracle), JavaScript, MATLAB, x86/RISC-V Assembly
- **Frameworks:** React, ASP.NET Core, Angular, Django, Bootstrap
- **Tools:** Git, GitHub Actions, Docker, Azure, Postman, Swagger, Wireshark, Apache Bench
- **Concepts:** REST APIs, CI/CD, ETL, JWT/OAuth, TCP/IP networking

## LANGUAGES

- English (C2), Gujarati and Hindi (fluent), Spanish (B1), Polish (A2–B1)