

# Subodh Wagh

Newasa, Maharashtra

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## Education

### M.Sc. (Computer Science)

Pursuing

Department of Computer Science, Savitribai Phule Pune University, Pune

### B.Sc. (Computer Science)

Completed Jun 2024

PVP College of Arts, Science and Commerce, Pravaranagar, Maharashtra

## Experience

### Java Developer Intern, CodSoft [GitHub](#)

Mar 2024 - Apr 2024

- Improved Java programming and software efficiency.
- Developed Address Book and Student Management Systems with modular design.

## Projects

### All-in-One Advanced Calculators (CalcRafter) [GitHub](#)

2024

- Engineered a full-stack web application using HTML, CSS, JavaScript, PHP, and Bootstrap, enabling multi-domain calculation functionality.
- Implemented modular architecture and client-server communication for 20+ dynamic calculators across mathematics, finance, and health domains.
- Optimized UI responsiveness and performance through DOM manipulation, event-driven logic, and efficient input validation.

### Self-Derived Translator [GitHub](#)

2025

- Developed a C-based source-to-source compiler that converts a custom high-level syntax into x86-style assembly.
- Implemented lexical tokenization, recursive descent parsing, and instruction emission pipelines.
- Designed modular compilation architecture including symbol table management, register allocation, and control flow translation.

### x86 Assembler (In Progress)

2025

- Developing a Python-based assembler that converts symbolic assembly input into NASM-compliant output.
- Implementing instruction parsing, opcode mapping, label resolution, and binary encoding modules.
- Focused on understanding instruction encoding, memory addressing, and symbol handling at the binary level.

## Skills

**Technical Skills:** C, Python, Basic Bash Scripting, Databases, Data Structures, Compiler Design, System Programming

**Tools:** Linux, NEST, FRR, Git, Vim, VS Code

**Soft Skills:** Communication, Leadership, Teamwork, Problem Solving, Task Prioritization, Project Management

**Certificates:** C Language, Java Internship, Java Programming

## Activities & Involvement

### CSFG Cell Member, Department of Computer Science, SPPU

2025 - 2026

- Coordinated departmental events to promote student engagement.
- Assisted in organizing workshops and seminars for Computer Science students.