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, 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.