

# Aayan Shaikh

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## TECHNICAL SKILLS

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**Languages:** Python, C, JavaScript, TypeScript, HTML, CSS  
**Frameworks & Libraries:** Django, Node.js, React, Next.js, Astro  
**Developer Tools:** Git, Linux, Docker, NeoVim, Firebase, VS Code, Bun  
**Core Concepts:** Data Structures & Algorithms, Memory Management, OOP, Functional Programming

## PROJECTS

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- Memory Management Systems** | *C* 2025
- Built reference counting garbage collector with automatic memory deallocation and circular reference prevention
  - Implemented mark-and-sweep garbage collector featuring graph traversal for efficient heap memory management
  - Demonstrated low-level systems programming with pointer arithmetic and manual memory operations
- Static Site Generator** | *Python* 2025
- Converting Markdown to HTML with custom templating engine and recursive directory parsing
  - Implemented modular architecture separating parsing, templating, and file generation concerns
  - Designed transformation pipeline handling multiple file formats and nested directory structures
- AI Agent** | *Python* 2025
- Built autonomous AI agent leveraging function calling capabilities with LLM integration
  - Implemented decision-making logic and state management for multi-step task execution
- Asteroids Game** | *Python, Pygame* 2025
- Developed object-oriented game featuring collision detection, physics simulation, and real-time rendering
  - Implemented game loop architecture with entity management and event-driven programming patterns
- Bookbot** | *Python* 2025
- Created text analysis tool performing data extraction and generating statistical reports from documents
- reduceify [NPM Package]** | *JavaScript, Node.js, Sharp* 2025
- Built CLI image processing tool with batch compression and format conversion; 100+ weekly NPM downloads
  - Implemented efficient buffer handling, stream processing, and comprehensive error management
- Create-Astro-Scss [NPM Package]** | *JavaScript, Node.js* 2025
- Published project template package with automated setup using Node.js file system APIs

## EDUCATION

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- Symbiosis Skills and Professional University** Pune, MH  
*Bachelor of Business Administration in Financial Technology* Aug. 2022 – June 2025
- Boot.dev Backend Developer Learning Path** Online  
*Python, C, Linux, Git, OOP, Functional Programming, DSA, Memory Management (In Progress)* 2025 – Present

## EXPERIENCE

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- Founder and Developer** Mar. 2025 – Present  
*Kolibri Web Designs* Remote
- Architect and deploy full-stack solutions for international clients achieving 95+ Lighthouse scores
  - Optimize application performance, implement responsive architectures, and manage deployment pipelines
  - Handle complete development lifecycle from requirements gathering to production deployment
- Market Research & Product Development Intern** June 2023 – Sept. 2023  
*boAt Lifestyle* Mumbai, MH
- Analyzed 660-person survey dataset to inform product launch strategy and feature prioritization
  - Collaborated with cross-functional teams to translate consumer insights into technical requirements
  - Performed systematic testing and benchmarking to optimize product performance metrics