

Shiva Kar

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PROFESSIONAL SUMMARY

1st year BCA student at Amity University Online specializing in Software Engineering, with a foundation in C programming and systems concepts. Currently building projects in memory management, process execution, and version control. Seeking a software development or backend internship to gain real-world engineering exposure.

EDUCATION

Bachelor of Computer Applications (BCA) — Software Engineering *Jul 2025 – Nov 2028*

Amity University Online, Noida, India | Enrollment No: A9922525006686

- SGPA: 8.36 (Semester I)

Higher Secondary (Class XII) — Science (PCM & Computer Science) *Jul 2022 – Mar 2025*

Deshabandhu Bidyapeeth HS School, Hojai

Secondary Education (Class X) *Jan 2017 – Mar 2022*

Rabindra Bidyalaya High School, Hojai

EXPERIENCE

Internshala Student Partner (Cohort 55 & 56) *Jan 2026 – Present*

Internshala · Hojai, Assam, India

- Promoted internships and skill-based programs among students at Amity University Online
- Created awareness through digital platforms and peer-to-peer outreach
- Assisted students in understanding career pathways and practical learning options

TECHNICAL SKILLS

Languages	C (primary)
Concepts	Memory management, data structures, algorithms, OS fundamentals, debugging
Tools	Git, Unix/Linux, command-line tooling, GCC
Other	Object-Oriented Programming concepts

PROJECTS

Custom Garbage Collector (C) *In Progress*

- Building a garbage collector in C to understand manual memory management, heap internals, and object tracking
- Covers mark-and-sweep algorithm, root tracing, and allocation metadata

Unix-like Shell (C) *In Progress*

- Building a minimal Unix shell in C with command parsing, execution via fork/exec, and process management
- Covers system calls, file descriptors, signal handling, and piping fundamentals

Git Implementation (C) *In Progress*

- Building a simplified Git clone in C to understand content-addressable storage, blob and tree objects, and commit history
- Covers file I/O, hashing, and version control internals from scratch

CERTIFICATIONS

- Learn C — Skill Path | Codecademy
- Computer Science Curriculum | OSSU (Open Source Society University)

LANGUAGES

- English (Professional) | Hindi (Full Professional) | Bengali (Native)

TECHNICAL INTERESTS

- Backend engineering and distributed systems architecture
- Systems programming, memory management, and OS internals
- Algorithms, debugging, and low-level performance optimization
- Cloud and platform infrastructure engineering