

Abhimanyu Singh Bamal

Junior Software Engineer / Full-Stack Developer / AI & SIP Systems Enthusiast

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Summary

A curious, relentless builder with a poet's patience and an engineer's precision. Junior Software Engineer with hands-on experience in SIP systems, Linux, and full-stack development. I turn messy problems into elegant systems using cutting edge Artificial Intelligence model systems.

Core Skills

Languages	Python, JavaScript, TypeScript, C, C++, Bash, SQL
Web & Backend	Node.js, Express, React, REST APIs, WebSockets, HTML, CSS, Bootstrap, PDF.js
Telecom & Networking	Asterisk, SIP, AMI, RTP, VoIP, SNMP, Linux Networking
AI & ML	Python ML stack, Data Science fundamentals,
DevOps & Tools	Linux, Git, Netplan

Experience

SIP Programmer — Connect Compusys Pvt. Ltd, India (Jan 2026 – Present)

- Built and customized SIP server features using Asterisk with AMI integrations.
- Automated deployments and monitoring using Bash & Python.
- Debugged RTP, NAT, and firewall issues.

Flipkart & Amazon Seller Account Manager — Amazon India, Flipkart India (2021 – 2024)

- Managed listings, inventory, and order pipelines across marketplaces.
- Built data-driven workflows and shipping automation.

Projects

Aegis — Linux Anti-Cheat System (R&D) (In Progress)

- Kernel integrity, TPM, and secure boot research for a Linux-first anti-cheat architecture.

Smart PDF Navigator (Prototype Available)

- Paragraph-level PDF navigation with keyboard control. Tech: Python, PyMuPDF, PyQt / React, PDF.js

SIP Control Dashboard

- Real-time dashboard for Asterisk AMI events. Tech: Node.js, WebSockets, Linux

Teddy Bear Wheelchair (Arduino)

- Motor control system with Arduino for an interactive wheelchair.

Education

B.Sc. Computer Science — Guru Jambheshwar University of Science & Technology, Hisar (2022 – 2025)

B.Tech. Computer Engineering — University of Guelph, Canada (2018 – 2022) • Scholarship: \$6000 CAD

Senior Secondary Schooling— O.P.Jindal Modern School, Hisar (2016-2018) • Marks Obt – 80.8%

Secondary Schooling—O.P.Jindal Modern School, Hisar (2016-2018) • Marks Obt – 10 CGPA