

AYUSH SINGH

Software Engineer | Open Source Engineer — Linux Foundation OpenPrinting | Backend & APIs
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PROFESSIONAL SUMMARY

Software engineer with production API/backend experience and unusually deep upstream open-source engineering work: maintainer on The Linux Foundation's OpenPrinting project, with additional merged contributions to WP Rig (WordPress) and the Medic Community Health Toolkit. Comfortable across Linux systems, Go/Python tooling, REST APIs, debugging, and cross-repository collaboration with upstream maintainers.

PROFESSIONAL EXPERIENCE

Acxiom Consulting — Trainee Technical Consultant

Feb 2026 – May 2026

Noida, India

- Developed, integrated, and validated 19 REST APIs supporting application and data migration workflows to Microsoft Dynamics 365 Business Central.
- Implemented and tested Dynamics 365 Business Central ERP customizations for payroll and employee-management workflows, validating backend behavior against functional requirements.
- Built Android application functionality with React Native CLI for the Floor & Furnishing product, taking features through implementation, integration, and QA.
- Diagnosed API, backend, and workflow defects through structured debugging and root-cause analysis; reproduced failures and validated fixes via functional testing.
- Collaborated in an Agile environment through sprint planning, code reviews, API testing, and cross-functional technical discussions.

OPEN SOURCE ENGINEERING — THE LINUX FOUNDATION / OPENPRINTING

Maintainer & Open Source Contributor

Jul 2025 – Present

Remote

- Maintain and contribute to Linux printing infrastructure across [system-config-printer](#), [go-mfp](#), [foomatic-db](#), [legacy-drivers](#), and Foomatic tooling.
- Resolved UUID-merging and nil-backend failure paths in go-mfp's printer-discovery logic and added regression coverage, improving device-resolution reliability ([go-mfp #11](#)).
- Fixed discovery-completion and device-presentation behavior in system-config-printer's printer/device discovery workflow ([#455](#)).
- Built tooling to process the Foomatic XML driver database and generate lookup-site data for foomatic-lookup-site ([#5](#)).
- Preserved legacy printer-driver support across foomatic-db and legacy-drivers through upstream-source and metadata maintenance, correcting broken driver references ([#4](#)) and ([#53](#), [#54](#), [#57](#), [#58](#)).
- Collaborate with distributed maintainers via GitHub pull requests, code review, and issue triage.

SELECTED UPSTREAM CONTRIBUTIONS

- WP Rig** ([wprig/wprig](#)) — 3 pull requests merged into develop and shipped in v3.1: fixed mobile navigation and submenu toggling for touch/keyboard interaction ([#890](#)); integrated theme.json into the block-editor theme-conversion workflow ([#891](#)); and corrected an accessibility issue exposing hidden site branding to screen readers/keyboard navigation ([#892](#)).
- Medic Community Health Toolkit** ([cht-core](#), [cht-conf](#)) — Contributed fixes and configuration-tooling improvements across multiple pull requests in the CHT ecosystem, an offline-first digital health platform.

SELECTED TECHNICAL PROJECTS

- Aura.AI — AI-Powered Career Assessment & Mentorship Platform.** Built a full-stack Next.js application with a custom backend API layer and authentication, deployed to production on a custom domain ([auraaiprep.tech](#)); owned feature development and production-configuration debugging end-to-end.
- MoodBite.AI — Sentiment-Based Food Recommendation App.** Developed a Python/Next.js/Node.js application integrating sentiment analysis with external recommendation APIs, handling backend request processing and testing across varied input scenarios ([moodbite-ai.netlify.app](#)).

TECHNICAL SKILLS

- Languages:** Python, JavaScript, SQL, C, Java
- Frameworks & Libraries:** React, React Native, Next.js, Node.js, Express.js, Apollo Client
- APIs & Backend:** REST APIs, API Integration, API Testing, Backend Development
- Systems & DevOps:** Linux, Git, GitHub, Docker, CI/CD, Postman
- Cloud & Infrastructure:** AWS, Terraform
- Enterprise:** Microsoft Dynamics 365 Business Central
- Engineering:** Debugging, Root-Cause Analysis, Software Testing, Code Review, Agile Development, Open Source Collaboration

EDUCATION

B.Tech, Computer Science Engineering — Shri Ramswaroop Memorial College of Engineering and Management, Lucknow

CGPA: 8.62 / 10

ACHIEVEMENTS & CERTIFICATIONS

Hacktoberfest 2025 — Super Contributor | Speaker, Open-Source Conference (OOSC 4.0), IIIT Allahabad | LFC102 Certification, The Linux Foundation