# KUNAL CHAUHAN

**Software Development Engineer — Full-Stack, Backend & AI Systems**
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## SUMMARY

Computer Science undergraduate (B.Tech, HPTU '27) and Software Development Engineer with hands-on experience across full-stack web apps, Python microservices, cloud infrastructure, and applied AI/ML systems. Proven track record at Bluestock Fintech building financial platforms with Django REST Framework, React.js, PostgreSQL, and AWS.

## TECHNICAL SKILLS

**Languages & Web:** Python, TypeScript, JavaScript (ES6+), C++, SQL (PostgreSQL, MySQL, SQLite), Dart, HTML5, CSS3, Bash

**Backend & Frontend:** FastAPI, Django REST Framework, Flask, Node.js, Express.js, React.js (18), Next.js 14, Flutter, Tailwind CSS, WebSockets, SSE

**Databases, AI & Cloud:** PostgreSQL, MongoDB, Redis, Prisma, LangGraph, RAG, OpenAI GPT-4o, Gemini Vision, Google ML Kit, Scikit-learn, AWS (EC2, S3, Lambda), Docker, Kubernetes

## EXPERIENCE

**Software Development Engineer Intern — Bluestock Fintech** **Apr 2025 – May 2025 | Remote, India**

- Engineered full-stack IPO tracking platform (Django REST, React.js, PostgreSQL) processing real-time data for 100+ public listings.
- Implemented stateless JWT auth and RBAC across 15+ REST endpoints (zero unauthorized access) and indexed PostgreSQL schemas cutting query latency by 40%.
- Built automated DRHP/RHP regulatory document pipeline and deployed on AWS EC2 and Vercel with 99.9% production uptime.

**Web Development Intern — GrowthLink** **Mar 2025 – Apr 2025 | Remote, India**

- Delivered 3+ responsive web applications (HTML5, JavaScript, Bootstrap), improving page load speed by 18% and cutting cross-browser UI bugs by 30%.

**Freelance Technical Content Creator — Self-Employed** **Dec 2023 – Apr 2024 | Remote**

- Authored 20+ technical tutorials on Django REST APIs, AWS architecture, and full-stack development, growing organic traffic by 20% via SEO.

## PROJECTS

**CareerPilot AI | Multi-Agent Career Copilot [GitHub]** **React, TypeScript, FastAPI, LangGraph, GPT-4o, MongoDB**

- Orchestrated 5-agent LangGraph workflow with real-time SSE streaming, OAuth2 JWT auth, RAG resume mapping, and ReportLab PDF export.

**SmartPark AI | Offline-First Mobile Parking System [GitHub]** **Flutter, Dart, SQLite (WAL), Google ML Kit OCR**

- Built offline-first Android parking app with on-device ML Kit license plate OCR, ACID SQLite WAL storage, and deterministic billing (54 passing tests).

**HPTU-ASIST | Campus Intelligence & Helpdesk System [GitHub]** **Python, Flask 3.1, BeautifulSoup4, Cohere Command-R, MongoDB**

- Built AI helpdesk serving 1,000+ students with automated scraping of 200+ university notices and semantic search cutting query resolution time by 60%.

**BurgerBot AI & Cloud Cost Optimizer** **Python, Cohere Command-R, Gemini Vision, AWS (EC2, Lambda, Boto3)** **[GitHub]**

- Developed multimodal voice/screen desktop assistant (Gemini Vision, Cohere) and event-driven AWS EC2 auto-scaler cutting cloud costs by ~15%.

## EDUCATION & ACHIEVEMENTS

**B.Tech in Computer Science & Engineering — Himachal Pradesh Technical University (HPTU)** **Aug 2023 – Sep 2027 (Expected) | HP, India**

**Coursework:** Data Structures & Algorithms, DBMS, Operating Systems, Cloud Computing, Computer Networks, OOP Design

- **Certifications:** AWS Cloud Essentials (AWS), Cloud Security for Executives (CSA/AWS), Google Play Store Listing (Google), Full-Stack Web Dev (Cuvette Tech).
- **Honors:** 1st Place Winner at HPTU Internal Hackathon; Faculty Commendation for Cloud Cost Optimizer (~15% AWS savings); 15+ GitHub repos & 31 verified LinkedIn skills.