

Pranish Bhagat.

CLOUD SOFTWARE ENGINEER

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01 SUMMARY

Cloud Software Engineer specializing in AWS data infrastructure, AI/LLM agent systems, and full-stack applications. At the Belmont Data & AI Center, I build AI-driven ETL pipelines, civic data lakes, and agentic research tools that turn public data into decision-ready products for nonprofit and community partners — turning complex problems into practical, reliable software.

02 SKILLS

LANGUAGES	Python, JavaScript/TypeScript, SQL, R, Bash
CLOUD & DATA	AWS (S3, Lambda, data lakes), Medallion lake architecture, ETL/ELT pipelines, REST APIs
AI / LLM	OpenAI GPT-4o, Claude Agent SDK, multi-agent orchestration, RAG, prompt engineering, deep research
BI & GIS	Amazon QuickSight, Power BI, ArcGIS / ESRI, Leaflet
WEB / FULL-STACK	React, Node.js, Express, Streamlit
DEVOPS & TOOLS	Git, GitHub Actions (CI/CD), Docker, ClickUp / Telegram / Composio integrations

03 WORK EXPERIENCE

Belmont University — Data & AI Center (BDAIC)

Nashville, TN

Cloud Software Engineer

Aug 2024 – Present

- Architected AWS data infrastructure handling **2TB+** daily data flows across multiple services for the center's AI initiatives, reducing deployment times by **35%**.
- Built a civic **data lake** on AWS (medallion Bronze → Silver → Gold) plus **AI-driven ETL and data-discovery tools** (Python, OpenAI GPT-4o, Streamlit) that ingest, transform, catalog, and surface public datasets (US Census, EPA) by topic and geography, with a natural-language agent interface.
- Engineered **agentic AI research pipelines** (Anthropic Claude Agent SDK, multi-LLM deep research) that generate cited reports on funders and nonprofits across hundreds of web sources, accelerating grant-seeking evaluation.
- Shipped full-stack **GIS web applications** (React, Express, Leaflet, ArcGIS) mapping community resources — housing, food assistance, healthcare — with public search and authenticated admin CRUD.
- Built real-time dashboards in **QuickSight, Power BI, and ArcGIS** adopted by **15+** departments, improving data accessibility by **60%**; automated internal reporting via ClickUp and GitHub integrations.

ICPC — International Collegiate Programming Contest

Egypt, Kazakhstan, Azerbaijan

Software Engineering Volunteer

Aug 2023 – Present

- Managed cloud infrastructure for **3,000+** participants across 14 regions with **100% uptime** at the 2023–25 World Finals; coordinated logistics, systems, and hybrid deployment for global competitions.

ICPC — International Collegiate Programming Contest

Waco, TX

Lead Software Engineer

Jan 2021 – Aug 2023

- Led backend systems for **100K+** students across **110+** countries; streamlined registration, judging, and analytics platforms using AWS and Python microservices.

Seva Development

Nepal

Lead Software Developer

2020

- Built and maintained Loxodo, a behavioral-tracking SaaS, doubling client adoption; acted as Scrum Master leading Agile sprints and cross-functional teams.

Cotiviti

Nepal

Software Developer

2016 – 2019

- Developed features for Medical Intelligence (MI), a healthcare analytics tool; improved claims-analysis pipelines, contributing to clinical decision-making efficiency.

04 EDUCATION

Baylor University

Waco, TX

Master of Science in Computer Science

Jan 2021 – Aug 2023

- Orlando Madrigal Scholarship (2021, 2022) — awarded for academic and development excellence.

Institute of Engineering (IOE), Pulchowk Campus

Lalitpur, Nepal

B.E. in Electronics & Communication Engineering

2012 – 2016

- Thesis: **Swarm Intelligence-Based Maze Solver** (DOI: 10.13140/RG.2.2.33546.75201). Golden Jubilee Indian Embassy & IOE Pulchowk (six-semester) scholarships for academic distinction.

05 PUBLICATIONS

- “Leveraging Secure Social Media Crowdsourcing for Gathering Firsthand Account in Conflict Zones.” A. Orojo, P. Bhagat, J. Wilburn, M. Donahoo, N. Vishwamitra. *Lecture Notes in Computer Science*, Springer (2025), pp. 160–170. DOI: 10.1007/978-3-031-78538-2_14.