Shivam Pankaj Kumar

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EDUCATION

University of Illinois, Urbana Champaign	Urbana-Champaign, IL
Masters of Computer Science, GPA: 4.0/4.0	Aug '22 - Dec '23
Birla Institute of Technology, Mesra	Ranchi, India
B.E., Computer Science, GPA: 8.4/10	May '16 - Jun '20

WORK EXPERIENCE

Palo Inc. — Palo Alto, CA
Co Founder and CTO — Sep'25 – Present

- Built the entire infra and backend from scratch, and a team of 4 engineers to create Palo AI, funded by NFX, PeakXV
- Created a system which reliably understands content creators and uses agentic workflows to help them ideate, write, review, publish and track their content across all platforms. Use proprietary tech to achieve this(Patent Pending)

Rubrik Inc. — Palo Alto, CA
Software Engineer 2 — Jan '24 – Apr '25

- Built Gen-AI based Developer Productivity tools to help developers triage issues much faster and efficiently using similarity suggestions and potential resolutions provided by RAG Pipelines and COT Prompting (Milvus, GPT)
- Championed performance and quality engineering through saturation and perf testing workflows (Python, Django)

Palantir Technologies — New York, NY
Software Engineering Intern — May '23 – Aug '23

- Developed an automated flow, supported by LLMs, allowing users to employ cURL requests and OpenAPI specifications to build foundry webhooks, allowing ingress and egress of data. (AIP, GPT, React, Java, Conjure)

University of Illinois, Urbana-Champaign — Champaign, IL
Graduate Research Assistant (Deep Learning for Healthcare) — Jan '23 – Aug '23

- Created FHIR Apps for EHR Systems to deploy FairPlay, a Data Synthesizer to reduce racial bias in AI healthcare predictions by rebalancing datasets with Generative AI augmented datasets. (2nd Place, 3CAIH Bowl, Northwestern)

Microsoft Corporation — Hyderabad, India
Software Engineer — Jan 2020 - Aug 2022

- Led migration of System Center Operations Manager (SCOM) onPremise to Cloud. Coded integral Infrastructure as Code Scripts, Deployment Pipelines, and Automation for release validation. Brought down manual effort by 85% and deployment time by 50%. Received **Special Stock Award** (CI/CD, EV2, C#, ARM, SQL, Azure)
- Performed compiler hardening for C++ binaries, wrote a secure build pipeline with validation checks as a combined global mitigation team effort for fixing **OMIGOD** (Microsoft Wide security vulnerability) (Linux, C++, GH Pipelines)
- Revived and enhanced Workflow Analyzer, a Management Pack tool with process, thread, and time travel debugging, reducing RCA time. Consequentially, received '**Quality Champ**' award from Leadership (C#, PowerShell, WPP)
- **Microsoft Interns 4 Africa Facilitator:** Provided 1:1 Mentorship to students from underserved communities in Africa in field of Data Science and ML to help candidates secure Internships, and employment
- Agent Simulator: Wrote tool to pump synthetic Agent Data of order of up to 10^6 Agents, monitored by SCOM Server to simulate a high workload environment, to be able to pre-emptively discover scale issues faced by large clients, making a fix possible pre-release (C#, PowerShell)

PROJECTS

- *Improving medical machine learning models with generative balancing for equity and excellence*, **Nature Digital Med**
- *A psephological analysis of partitions to illustrate the variation of proportional representational influence of minorities in terms of elected representatives*', **European Journal of Minority Studies**
- **Bachao:** Engineered accident detection Logic, encrypting and decrypting distressed person's coordinates in sound for Bachao, a safety app using Ultrasonics to relay help messages where networks fail. (Tensorflow, Keras, Python)

TECHNICAL SKILLS

- AI (LLM, MCP, Agents) , Cloud (Azure, AWS, GCP), DBMS (MySQL, MongoDB,), WebDev, CI/CD
- Languages: C, C#, C++ (STL), Java, Python
- Git, PyTorch, Keras, Tensorflow, React, .NET, ARM, Powershell, REST, Linux, Docker, Kubernetes, Flask

ACHIEVEMENTS

World's Largest MCP Hackathon, Y Combinator: 3rd	May 2025
HackGPT, Cornell University: Winner (GPT4All and Cohere Challenge)	May 2023
Cozad Startup Challenge, UIUC: Finalist	Apr 2023
Quolowardia, the Novel: One of the youngest published authors in India	May 2012