

Gaurvendra Pratap Singh Pundhir

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EDUCATION

University of Arizona

May 2027

Bachelor of Science in Computer Science & Management Information Systems

SKILLS

Languages: Python, Java, C, C++, JavaScript

Frameworks & Libraries: Flask, React.js, Node.js, Express.js, TypeScript, Flutter, Dart, Pandas, NumPy, Scikit-Learn, PyTorch, TensorFlow, LlamaIndex, MERN stack, Crewai - multi-agent orchestration architectures, RAG pipelines, LangChain

Databases & Tool: Git, AWS (EC2, S3, RDS), Azure, Google Firebase, MySQL, MongoDB, NGINX, Gunicorn, Linux VMs, Docker, Kubernetes, CI/CD pipelines, Cloud DevOps tools, REST APIs, Generative AI frameworks

WORK EXPERIENCE

Roche, Data Engineer | Process Workflow & Automation (via Eller Partnerships Office)

June. 2025 - Present

- Automated key lab data workflows, increasing **operational efficiency** by 25% and **reducing manual errors**.
- Developed real-time dashboards and analytics pipelines for process optimization, driving data-informed decisions across teams.
- Supported adoption of **advanced tracking and automation** systems, **accelerating cross-departmental collaboration** and throughput.

School of Mining & Mineral Resources, Software Developer | Full-Stack & AR/XR Innovation

Jan. 2025 - Present

- Developed **full-stack applications** to support educational and research initiatives.
- Integrated **AR/XR technologies** to modernize workshops and interactive learning.
- Worked closely with faculty to enhance the **digital transformation** of mining education.

CellaNova Tech Solutions, Full Stack AI Engineer

June. 2025 - Dec. 2025

- Designed and deployed end-to-end **agentic AI architectures**, **reducing prototype-to-deployment time** by 40% for production-grade systems.
- Built full-stack **AI-driven products** integrating **multi-agent reasoning** and advanced prompt engineering, enabling scalable enterprise applications.
- Led model **fine-tuning** and **prompt optimization** efforts, **improving AI response** accuracy by 35%.

First American Finance, UI/UX Developer | Real Estate Transactions (via Eller Partnerships Office)

Jan. 2025 - May 2025

- Designed and **optimized** user experiences for **real estate transaction** platforms.
- Developed intuitive interfaces to enhance **user engagement** and **streamline workflows**.
- Collaborated with **stakeholders to improve digital solutions** for financial operations.

Komatsu, SDE Intern (via Eller Partnerships Office)

May 2024 - Aug. 2024

- Designed and integrated a **Retrieval-Augmented Generation (RAG) Large Language Model (LLM)** to streamline documentation processes, reducing manual effort by 40% and improving data retrieval accuracy.
- Developed a scalable back-end architecture using **Flask**, integrated with a **React and TypeScript front-end** and LLaMA's 70B parameter LLM.
- Explored deployment on **CyVerse** infrastructure using **NGINX**, **Gunicorn**, and a Linux VM, gaining hands-on experience in deployment pipelines and infrastructure management

LEADERSHIP & ACTIVITIES

Jobs for the Future (JFF), National Ambassador

Feb. 2025 - June 2025

- Selected as **one of ten ambassadors nationwide** to represent and advocate for equitable education and workforce transformation at Horizons and beyond.
- Collaborated with **policymakers and cross-sector leaders** to advance **community-rooted leadership and economic mobility** in New Orleans.

Zipperman Scholars Program, Scholar

Aug. 2024 - Dec. 2025

- Participated in exclusive development workshops, including visits to the **Amazon Distribution Center** and a **panel discussion at the Arizona Cardinals headquarters** on team leadership and innovation.
- Engaged in mentorship sessions and practical experiences, honing project management and technological problem-solving skills.

FORGE-University of Arizona, Student Start-up Residency Program

May. 2024 - Aug. 2024

- Advanced the **KeyVoid startup**, focusing on scalable business models, product development, and funding strategies.
- Secured **\$8,500 in funding** for the venture, enabling further development and operational scaling.

Wildcat Fusion Network, Founder and President

Jan. 2024 - Dec. 2025

- Organized **weekly LeetCode sessions** and **tech workshops** on web development and machine learning to enhance students' problem-solving skills.
- Led a team of 8 to mentor students and provide guidance on study-abroad programs in the USA, UK, and Australia.

PROJECTS

Interview Simulation & Feedback Generation | Llama Index, Python, React, CSS, JS, MERN, RAG LLM

- Built an innovative tool that **simulates** realistic interviews and provides structured feedback to improve users' preparation.
- Utilized a robust back-end powered by RAG LLM for generating scenario-specific responses.