

ABHIJEET SANDIP PACHPUTE

(801)949-7940 | abhijeetsp21@gmail.com | [linkedin.com/in/abhijeet-pachpute/](https://www.linkedin.com/in/abhijeet-pachpute/) | [GitHub](#) | abhijeetpachpute.com

Education

University of Utah

Master of Science, Computer Science

Aug 2024 - May 2026

Salt Lake City

• **GPA:** 3.7/4.0

• **Coursework:** Graduate Algorithms, Deep Learning, Neuro-Symbolic Modelling, Manage Data for ML, ML Security

Savitribai Phule Pune University

Bachelor of Engineering, Computer Engineering

Jul 2019 - May 2023

Pune

• **GPA:** 8.7/10

• **Coursework:** Object-Oriented Programming, Database Management, Data Structures & Algorithms, Machine Learning

Skills

- **Programming Languages:** Python, Java, C++, C, Kotlin, JavaScript (ES6+), TypeScript
- **Backend & Databases:** Spring Boot, RESTful APIs, caching, concurrency, Redis, Node.js, MySQL, MongoDB
- **AI/ML:** LangChain, RAG, OpenAI/Gemini/Opus API, vector embeddings, Huggingface
- **Cloud & Infrastructure:** AWS (EC2, S3, Lambda), Docker, Kubernetes, CI/CD, Git, GitHub
- **Frontend Technologies:** React.js, Next.js, Tailwind, HTML, CSS
- **AI-Augmented Dev Workflow:** Google Antigravity, Claude Code, Cursor, Cline CLI, GitHub Copilot

Experience

University of Utah

IT Systems & Security Intern

Jun 2025 - Present

Salt Lake City, UT, USA

- Engineered and automated **endpoint management** and **security workflows** using **Python** and enterprise tools (Intune, Tanium, BeyondTrust), improving **system compliance by 60%** across a **\$650M+ research infrastructure**
- Built and optimized **scalable device provisioning pipelines** (imaging, configuration, encryption) for **70+ endpoints**, reducing manual setup time and ensuring consistent, **policy-compliant deployments**
- Troubleshoot and resolved **system-level and network issues** across **distributed environments** (Windows/macOS, TCP/IP, identity systems), applying **root-cause analysis** to improve system reliability and reduce recurring failures

AVI Human Services

AI Software Engineer Intern

May 2025 - Aug 2025

Logan, UT (Remote), USA

- Led development and deployment of **real-time AI analytics platform** using **React, Node, TypeScript, Gemini API** and **Docker on AWS**, enabling faster student performance monitoring
- Designed and optimized **LangChain RAG-based prompt orchestration** and backend services using **vector embeddings** and **Kubernetes**, improving content relevance by 40% and enabling scalable, automated curriculum generation
- Designed and built **fault-tolerant REST APIs** with **Redis distributed caching** and **MySQL** index tuning, sustaining **sub-200ms latency** across 10 state-level production deployments under concurrent multi-agency traffic
- Enabled intelligent querying and automated alerts for 50,000+ student records with **graceful degradation**, ensuring **zero-downtime data access**

eWarranty Solutions

Software Developer Intern

Jul 2023 - Feb 2024

Pune, India

- Developed a **large-scale QR code-based warranty verification system** using **Java, Kotlin, Spring Boot**, and **RESTful APIs**, streamlining workflows for over 45,000+ products and cutting manual errors by **30%**
- Modeled analytics pipeline as an **async computation graph** using **Java CompletableFuture** chains and **MySQL read-optimized schema**, decoupling query latency from write throughput across product records **at scale**
- Enhanced backend performance by **optimizing database queries, API workflows**, and system architecture with **MySQL, Kotlin** Coroutines, reducing response times by **40%** and improving **system stability under concurrent load**
- Engineered an analytics dashboard with **Spring Boot** and **JavaScript**, deployed via **Docker** and **Kubernetes**, which gave manufacturers real-time insights and enabled faster, data-driven decisions

Projects

Good Bowls | [GitHub](#)

- Engineered a full-stack e-commerce platform allowing users to customize orders via a state-driven salad bowl builder, managing complex state changes and real-time price updates in React
- Integrated Stripe API to facilitate secure payment processing and implemented a robust RESTful backend with Node.js/Express to handle order validation, history, and user authentication

Multi Agent Data Wrangler | [GitHub](#)

- Designed a multi-agent pipeline with 5 decoupled services coordinated by an AgentCoordinator, enabling pluggable ranking policies and configurable failure recovery without cross-agent coupling
- Modeled transformations as a reversible DAG enforcing implicit ordering constraints; built a composite quality scorer across four orthogonal dimensions with configurable weights, validated on 200K rows × 42 columns