

Abhijeet Sandip (Abhi) Pachpute

(801) 949-7940 | abhijeetp21@gmail.com | linkedin.com/in/abhijeet-pachpute/

github.com/AbhijeetP21/ | abhijeetpachpute.com/

Education

Master of Science, Computer Science

University of Utah (GPA: 3.7/4.0)

August 2024 - May 2026

Salt Lake City, UT, USA

- **Coursework:** Graduate Algorithms, Operating Systems, Computer Architecture, Manage Data for ML

Bachelor of Engineering, Computer Engineering

Savitribai Phule Pune University (GPA: 8.7/10)

July 2019 - May 2023

Pune, India

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

Professional Experience

AI Software Engineer Intern

AVI Human Services

May 2025 - August 2025

Logan, UT (Remote), USA

- Developed and deployed a real-time analytics platform (React, Node, TypeScript, Docker on AWS) for faster student-performance monitoring
- Built fault-tolerant REST APIs with Redis caching and tuned MySQL indexes, holding median response times under 200ms under concurrent load
- Designed a LangChain pipeline with the Gemini API and vector embeddings for automated content generation
- Added automated alerting and graceful degradation across a 50,000+ record dataset to keep queries available during partial failures

IT Systems & Security Intern

University of Utah

June 2025 - May 2026

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

Software Developer Intern

eWarranty Solutions

July 2023 - February 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

Projects

SynapticaAI - LLM Gateway & API Infrastructure | [GitHub](#)

- Built an OpenAI-compatible API gateway with a configurable routing layer and semantic caching across providers, cutting redundant calls and cost
- Instrumented request-level observability (latency, error rate, cache-hit rate) with a live dashboard and CI-based evals that gate changes before deploy

ClipSync - Self-hosted Multi-device Clipboard | [Live Demo](#)

- Built a self-hosted clipboard sync app with Next.js 16 and Supabase, with real-time cross-device sync, row-level security, and a rich-text editor, deployed on Vercel
- Designed the data model and auth flow for low-latency updates with offline-tolerant state management (Zustand)

Good Bowls - Full-stack E-commerce | [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

Technical Skills & Expertise

- **Programming Languages:** Python, Java, C++, C, Kotlin, JavaScript (ES6+), TypeScript
- **Backend & Databases:** Spring Boot, RESTful APIs, caching, concurrency, Redis, Node.js, MySQL, MongoDB
- **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:** Claude Code, Cursor, GitHub Copilot, OpenAI Codex
- **AI/ML:** LangChain, RAG, OpenAI/Gemini/Claude APIs, vector embeddings, Huggingface

Research & Recognition

- 2 IEEE publications and 3 filed patents (IP India) in generative models and computer vision. Smart India Hackathon 2022 Finalist. Links on portfolio.