

ABHIJEET S PACHPUTE

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SUMMARY

Adaptable computer science graduate and software engineer with experience building scalable systems, optimizing workflows, automating decision-making. Proven ability to rapidly master new technologies, solve complex problems, deliver measurable product improvements. Strong communicator with a track record of translating technical solutions for diverse stakeholders.

EDUCATION

University of Utah

August 2024 - May 2026

Master of Science in Computer Science GPA: 3.7/4.0

Relevant Coursework: Graduate Algorithms (CS 6150), Deep Learning (CS 6353), Security & Privacy (CS 6495)

University of Pune

July 2019 - May 2023

Bachelor of Engineering in Computer Engineering CGPA: 8.7/10

Relevant Coursework: Object-Oriented Programming, Database Management, Data Structures & Algorithms, ML

SKILLS

Programming Languages: Java, Python, C++, C, Kotlin, JavaScript (ES6+), TypeScript

Backend & Databases: Spring Boot, RESTful APIs, caching, concurrency, 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

EXPERIENCE

Information Technology Intern

June 2025 - Present

University of Utah | VP for Research

Salt Lake City, USA

- Administered research infrastructure across 4 departments that powered a **\$650M+** annual enterprise and deployed security solutions: **Microsoft Intune, Tanium & BeyondTrust** that reduced risk by **60%** and secured compliance with federal research data standards
- Formalized and co-authored **SOPs** for international loaner laptops and onboarded **70+ devices** with full-disk encryption, bringing deployments into compliance with university policies

AI Software Engineer Intern

May 2025 - August 2025

AVI Human Services

Remote, USA

- Spearheaded development and deployment of real-time AI analytics using **React, Node.js, TypeScript**, Google Gemini 2.5 API, & **Docker** on **AWS**, enabling intelligent querying and automated alerts for **50,000+** student records across 10 US state agencies, operating on **production-grade, fault-tolerant backend** services
- Formulated prompt optimization framework using **RAG techniques & vector embeddings**, achieving **40%** improvement in content relevance & automated curriculum creation with production-grade API orchestration on **Kubernetes** clusters, balancing performance, cost, and reliability trade-offs

Software Developer Intern

July 2023 - February 2024

eWarranty Solutions

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%
- Engineered **real-time analytics** dashboard with **Spring Boot**, JavaScript, **MySQL**, and integrated **CompletableFuture** API for asynchronous data retrieval, enabling manufacturers to make latency sensitive, data-driven warranty decisions
- 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

PROJECTS

Dinodash | C++, Raylib, OpenGL, Clang/GCC, Cross-platform | [Website](#)

- Developed 2D survival game in **C++** using **Raylib & OpenGL** with real-time physics, collision detection, & dynamic object spawning while maintaining stable **60 FPS** performance through careful memory & resource management
- Implemented advanced graphics systems including multi-layer **parallax scrolling**, procedural day-night cycles, & optimized resource allocation for **25+** game assets with proper resource cleanup.

Custom Unix Shell | C, System Calls, Process Management, File I/O | [GitHub](#)

- Implemented fully functional Unix-like shell in **C** supporting command execution, piping, I/O redirections (**>**, **>>**, **<**), background processes (**&**), and logical operators (**&&**, **||**) using **fork()**, **exec()**, and **wait()** system calls.
- Designed asynchronous background process execution with **PID tracking** & file descriptor management, achieving stable performance across **500+** test commands with proper cleanup & edge case handling under concurrent process execution