

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 <i>Master of Science in Computer Science</i> <i>GPA: 3.7/4.0</i>	<i>August 2024 - May 2026</i>
Relevant Coursework: Graduate Algorithms (CS 6150), Deep Learning (CS 6353), Security & Privacy (CS 6495)	

University of Pune <i>Bachelor of Engineering in Computer Engineering</i> <i>CGPA: 8.7/10</i>	<i>July 2019 - May 2023</i>
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 <i>University of Utah VP for Research</i>	<i>June 2025 - Present</i> <i>Salt Lake City, USA</i>
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- 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 <i>AVI Human Services</i>	<i>May 2025 - August 2025</i> <i>Remote, USA</i>
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- Led development & deployment of real-time AI analytics using React, **Node.js, TypeScript, Gemini API, Docker, AWS**
- Enabled intelligent querying and automated alerts for **50,000+** student records across 10 U.S. state agencies on **production grade, fault-tolerant backend** services
- Designed and optimized **RAG-based prompt orchestration** and backend services using **vector embeddings** and **Kubernetes**, improving content relevance by **40%** and enabling scalable, automated curriculum generation

Software Developer Intern <i>eWarranty Solutions</i>	<i>July 2023 - February 2024</i> <i>Pune, India</i>
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- 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