

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

- 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 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

Good Bowls | *React, Node.js, Express.js, REST APIs, MongoDB, Stripe API* | [GitHub](#)

- Engineered a **full-stack** e-commerce platform allowing users to customize orders via a dynamic **salad bowl builder**, managing complex state changes and real-time price updates in **React**
- Integrated **Stripe API** to facilitate secure payment processing and developed a robust **RESTful backend** with **Node.js/Express** to handle order validation, history, and user authentication
- Architected scalable **MongoDB schemas** to model relational data between ingredients, menu items, and users, ensuring efficient data retrieval for the frontend