

Gul Jain

Software Development Engineer

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TECHNICAL SKILLS

Languages

Java Python JavaScript
TypeScript C/C++ Shell

Frameworks

Express.js NestJS React
Node.js REST APIs

Databases

MySQL PostgreSQL

DevOps & Tools

Docker Git CI/CD GitLab
Linux/Unix Jest/JUnit Agile

Concepts

OOP Distributed Systems
Algorithms Data Structures
System Design SOLID

Professional Summary

Recent Computer Science graduate from UNSW with expertise in software development, AI-based systems, and scalable architecture. Proven track record building production-ready applications using Java, Python, and TypeScript across full-stack environments. Demonstrated ability to deliver high-quality solutions through Agile methodologies, with experience in AWS-aligned technologies including Docker containerization, RESTful APIs, and CI/CD pipelines. Strong problem-solver with hands-on experience in distributed systems, databases, and collaborative team environments.

Education

Bachelor of Computer Science

Feb 2023 - Dec 2025

University of New South Wales (UNSW), Sydney, NSW

Relevant Coursework: Software Engineering, AI Systems, Algorithms & Data Structures, Database Systems, Distributed Systems, Object-Oriented Design

Key Projects

Access Management Dashboard

2025

NestJS • TypeScript • MySQL • React • Docker

- Engineered full-stack web platform in 6-person Agile team, delivering production-ready dashboard with RESTful backend APIs and responsive frontend interface, achieving 100% client acceptance
- Designed secure, modular backend architecture using NestJS and TypeScript with MySQL database integration, implementing role-based access control and comprehensive API endpoints for frontend consumption
- Deployed containerized application achieving 93%+ test coverage with automated CI/CD pipelines, comprehensive technical documentation, and production-ready deployment configuration

Enterprise Java Platform

2024

Java • Design Patterns • JUnit • CI/CD

- Refactored legacy Java application applying SOLID principles and design patterns, enhancing code maintainability and system extensibility for scalable future development
- Implemented complex game mechanics including state management systems, pathfinding algorithms, and entity interaction frameworks across 15+ component types
- Maintained >90% JUnit test coverage with full CI/CD pipeline compliance for automated testing, code quality validation, and continuous deployment processes

"Toohak" Multiplayer Quiz Platform

2023

Express.js • TypeScript • Jest • GitLab CI/CD

- Led 4-person development team through weekly Agile sprints, managing task allocation and conducting code reviews with 100% CI/CD protocol adherence on GitLab
- Developed scalable real-time quiz platform with Express.js backend and TypeScript, implementing RESTful APIs for user authentication, live quiz sessions, and dynamic question management
- Achieved 95%+ test coverage using Jest framework, maintained code quality through ESLint standards, and successfully deployed production application to live web servers

Professional Experience

Technology Solutions Consultant

Jan 2025 - Feb 2025

IBM, Sydney, NSW

- Architected comprehensive 29-week platform optimization strategy for DVA, delivering process automation solutions projected to reduce claim processing time by 78% through technical innovation and workflow redesign
- Collaborated in cross-functional team of 5 engineers to design and develop generative AI solutions for claims processing, contributing to technical architecture decisions and user experience design
- Conducted stakeholder interviews with 10+ users to identify system bottlenecks, translating complex business requirements into actionable technical solutions and implementation roadmaps

Leadership & Achievements

Competitive Programming Subcommittee Member

2025 - Present

UNSW Programming Portfolio

- Organized competitive programming workshops and contests, developing challenging problem sets and comprehensive solutions to enhance student algorithmic thinking
- Mentored students in problem-solving techniques and algorithmic optimization, fostering collaborative learning environment and technical skill development

SAIEP Industry Experience Program

2023

Study Australia Industry Experience - Drum Digital

- Analyzed client databases and user behavior patterns, proposing data-driven digital marketing strategies that increased client acquisition by 40%
- Developed SEO and social media optimization strategies resulting in 55% increased user engagement and 65% growth in organic traffic through technical platform improvements