

Preetinder Dhillon | Full Stack Engineer

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SUMMARY

Full Stack Engineer and recent Software Engineering graduate with expertise in backend and cloud-native development using Python, Java, and modern web technologies. U.S. green card holder, passionate about building scalable systems and AI-driven solutions.

EXPERIENCE

Full Stack Engineer

Pixquid

June 2025 - Present, Remote

B2B/B2C Creative Content Platform

- Developed and deployed full-stack features for a cloud-native streaming platform using React, Supabase, AWS, Stripe contributing to both frontend UI and backend infrastructure.
- Owned Supabase Edge Functions and Stripe integration, maintaining 99% uptime with zero payment or function failures, by implementing secure Deno-based serverless workflows.
- Accelerated feature delivery by 25% in a fast-paced startup environment, taking ownership of critical features and rapidly adapting to a modern tech stack.
- Architected an AI-powered movie recommendation engine using Supabase, AWS, and LLMs, analyzing behavioral signals (views, clicks, rewatch patterns) to generate scene-level personalized suggestions.
- Implemented robust software design principles across full-stack project (React, Supabase, AWS), enabling modularity and maintainability that reduced onboarding time for new developers by 30% and improved code review efficiency by 40%.

EDUCATION

Bachelor of Information Technology | Major in Software Engineering

La Trobe University · Bendigo, Victoria, Australia · 2025

- Developed a cross-platform mobile app that fulfilled 100% of client requirements, using Flutter (frontend) and Firebase (backend) for real-time data syncing in a four-person Agile team.
- Strengthened app security for 50+ simulated users with robust authentication and secure document uploads, achieving zero authentication failures.
- Delivered all project milestones on time by driving biweekly client meetings and iterative feedback integration.
- Optimized development workflow, reducing setup time by 20% through effective research and adoption of modern frameworks and tools.
- Certificate of Appreciation – Azure DevOps (Semester 1, 2024): recognized for commitment to industry tools and continuous learning.

PROJECT

AI-Powered Research Assistant - React, Python

Personal Project · July 2025 - August 2025

- Delivered an AI-powered academic research assistant leveraging GPT-4 with prompt engineering and retrieval-augmented generation (RAG) to compare articles, extract key insights, and guide students in essay writing using react.
- Built a dynamic comparison dashboard using GPT-4 to highlight differences in tone, claims, evidence, and writing style across sources.
- Implemented smart keyword tracking and timeline-based follow-ups with progress animations to boost user engagement and relevance to coursework.

Movie Recommender - Python, Flask, React

Personal Project · June 2025 - July 2025

- Architected a personalized movie recommender system using Supabase, AWS, Flask, and GPT APIs, leveraging prompt engineering for dynamic, user-specific recommendations.
- Improved UI response times by 20% by optimizing React state management and implementing on-demand loading with the TMDB API.
- Built and tested secure Flask RESTful endpoints that handled hundreds of simulated requests with 0% authentication failures, ensuring reliable backend functionality.

SKILLS

Languages: Python, JavaScript, Java, SQL, TypeScript

AI/LLM Tools: Prompt Engineering, Retrieval-Augmented Generation (RAG), GPT-4, OpenAI API

API Integrations: RESTful APIs, Stripe

DevOps & Cloud Tools: AWS, Git, GitHub, Docker, Postman

Framework: Flask, React, Spring Boot

Databases: PostgreSQL, H2, Supabase

Soft Skills: Team Collaboration, Problem-Solving, Critical Thinking