

Chandan Thakur

Full Stack Software Engineer

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PROFESSIONAL SUMMARY

Full stack software engineer with 3+ years of experience focused on scalable architecture, cloud infrastructure and access control. Worked on authentication and authorisation services built on Role Based Access Control (RBAC) and Attribute Based Access Control (ABAC) at a large fintech, and designed and shipped a multi tenant SaaS platform as the sole engineer. Currently studying a Master of Data Science and Innovation at UTS, with a strong interest in MLOps and hands on experience with LLMs and AI agents.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, SQL, Ruby

Frameworks: Spring Boot, React, Next.js, Ruby on Rails, Redux, gRPC, REST APIs

Security and Identity: Keycloak, Auth0, RBAC, ABAC, Authentication, Authorisation

Databases: PostgreSQL, MySQL, MongoDB

Cloud and DevOps: AWS, GCP, Kubernetes, Git, API Monitoring

Data and AI: Pandas, NumPy, scikit-learn, TensorFlow, Matplotlib, LLMs, AI Agents

Architecture: Multi Tenant SaaS, Microservices, Distributed Systems

PROFESSIONAL EXPERIENCE

Software Engineer

Mar 2026 – Present

GFS Group

Sydney, NSW

- Designed and built a multi tenant workforce management SaaS as the sole engineer, from architecture through to production release on web, iOS and Android
- Isolated tenant data at the database level so each organisation's workforce, clients, sites and rules stay fully separate
- Designed the access control model using RBAC and ABAC, with six roles across four access levels, and documented key decisions as architecture decision records
- Built shift management from rostering and geofenced clock in to timesheet approvals, with approved hours synced to Xero for payroll
- Delivered paperless onboarding with right to work checks and document expiry tracking, plus a client portal showing site attendance and costs
- Saved about \$5,000 a year in software costs and cut admin time spent on rosters and timesheets

Senior Software Engineer

Apr 2025 – Feb 2026

Yubi

Chennai, India

- Part of the platform team behind the central authentication and authorisation service, built on RBAC and ABAC and used by every business unit
- Built an API monitoring service that cut mean time to detect and resolve incidents (MTTD and MTTR) from four hours to 15 minutes
- Extended Keycloak with custom integrations for compliance requirements and partner level access control
- Simplified user management workflows and admin interfaces, reducing manual work for administrators
- Took part in the on call rotation for production incident response

Software Engineer

Dec 2023 – Mar 2025

- Migrated authentication from Auth0 to Keycloak, cutting identity costs by 15%
- Implemented role based access control across the platform using Spring Boot and React

- Worked on migrating services from Ruby on Rails to Spring Boot for better performance and maintainability
- Supported the move from AWS to GCP and deployed services on Kubernetes with the DevOps team
- Contributed to INR 7 million (about AUD 120k) in savings through backend and infrastructure optimisation

Software Engineer Intern

Feb 2023 – Jun 2023

- Built microservices in Python and Spring Boot, and REST APIs for loan sanctioning systems backed by MongoDB
- Used gRPC for communication between distributed services, reducing inter service latency

Frontend Developer Intern

Jan 2022 – Mar 2022

FuncBox

Remote

- Built interactive web applications with React and Redux, tested with Jest and React Testing Library

Frontend Developer Intern

Jun 2021 – Dec 2021

Everestwalk Groups

Kathmandu, Nepal

- Built responsive React interfaces with Redux and integrated REST APIs

EDUCATION

University of Technology Sydney (UTS)

Sydney, NSW

Master of Data Science and Innovation

Feb 2026 – Dec 2027 (Expected)

Vellore Institute of Technology (VIT)

Vellore, India

Bachelor of Technology, Computer Science and Engineering

Jul 2019 – Jun 2023

CERTIFICATIONS

Introduction to Data Science (Aug 2024)

Fundamentals of Network Engineering (Aug 2024)

Front End Web Development with React (Mar 2022)

REFERENCES

Shikhar Khanna

Head of People and Finance, GFS Group

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