

MANISH

Full-Stack Software Developer

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Availability: Full-time Nov 2026 – Feb 2027 and from June 2027 | Up to 48 hours a fortnight during semester

PROFESSIONAL SUMMARY

Full-stack developer with nearly two years of commercial experience building real-time web apps with Node.js, React and MongoDB on AWS. Finishing a Master of IT at Charles Darwin University, Sydney, in May 2027, and running two live products built with teams I led: MyMise, which finds price and menu mismatches for cafes, and MyUniLink, a verified student network. Looking for a summer internship (Nov 2026 – Feb 2027) and graduate or junior developer roles from June 2027.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL, HTML, CSS, PHP, C, C++

Frontend: React, Vite, React Native (Expo), Tailwind CSS, shadcn/ui, MUI, jQuery

Backend: Node.js, Express, FastAPI, Flask, REST APIs, Socket.IO (WebSockets), Prisma, SQLAlchemy, Zod, Swagger/OpenAPI

Databases: PostgreSQL, MongoDB, Redis, MySQL, SQLite

Cloud and DevOps: AWS (EC2, RDS), Azure (Container Apps, Blob Storage), Docker, GitHub Actions CI/CD, Vercel, Netlify

Security: JWT, OAuth 2.0 / OpenID Connect, WebAuthn passkeys, role-based access control (RBAC), PostgreSQL row-level security

Testing and Tools: pytest, Vitest, Jest, Postman, Git, GitHub, Jira, Figma, VS Code

PROFESSIONAL EXPERIENCE

Tekki Web Solutions, India

Jan 2025 – Apr 2025

Software Developer

- Shipped full-stack features on tight deadlines with Node.js, Socket.IO, MongoDB, Redis and React (Vite).
- Picked up an existing codebase quickly and worked with the frontend and backend developers to get features out.

Crypto Technology, India

Aug 2023 – Dec 2024

Software Developer

- Worked across the front and back end of a real-time ticket resale marketplace for a long-term client.
- Used Socket.IO and Redis so buyers saw listing and price changes as they happened, without refreshing the page.
- Wrote a Chrome extension and its Express API for buying and selling tickets, backed by Redis and run in Docker.
- Built a data aggregation tool that scraped several web sources and fed a live React dashboard (shadcn/ui).
- Sped up slow API endpoints by adding MongoDB indexes and replacing heavy queries with aggregation pipelines.
- Set up deployment with the backend on AWS EC2 and the frontend on Netlify, using GitHub Actions for CI/CD.
- Also worked on smaller client projects, adding custom API filters and rebuilding frontend modules in MUI.

Hoping Minds, Mohali, India

Feb 2023 – Jul 2023

Junior Software Developer (paid MERN stack training program)

- Six months of paid, hands-on training in MongoDB, Express, React and Node.js, building and testing REST APIs.

PROJECTS

MyMise, menu checking tool for cafes

Aug 2026 – Present

Live: mymise.com.au | *Python, FastAPI, PostgreSQL, Expo/React Native, TypeScript, Azure*

- Began as a four-person CDU capstone project that I led as team lead, and now runs as a live product.
- Wrote the core engine, which matches items across a cafe's counter, QR ordering and Uber Eats menus (RapidFuzz fuzzy matching) and runs nine rules for price, size, add-on and description gaps. It finds all 13 problems in the pilot cafe's menus.
- Backend in FastAPI and PostgreSQL 16. Each business's data is walled off with PostgreSQL row-level security, and tests fail if one business can see another's data.
- Sign-in by email code, Google, Microsoft or passkey (OpenID Connect, WebAuthn), with invites for owner, manager, staff and viewer roles. One Expo/React Native codebase covers phone, tablet and web.
- Runs on Azure in Australia (Container Apps, PostgreSQL Flexible Server, Blob Storage) for about US\$30 a month. Every push goes through GitHub Actions: 100+ tests against a real PostgreSQL database, plus type checks and linting.

MyUniLink, the verified student network

Oct 2025 – Present

Live: myunilink.com.au | *TypeScript, Node.js, Express, React, PostgreSQL, Prisma, Socket.IO, AWS*

- Built with a team I led. Students verify with a one-time code sent to their university email, then run societies, join groups on their campus or across universities, RSVP to events and message privately in real time (Socket.IO). Live for CDU and Torrens students.

- Access control has five role levels with permissions scoped by resource, action and campus, backed by audit logs, account lockout after failed logins and JWT authentication.
- TypeScript monorepo with Express 5, Prisma (20 data models), Zod validation and Swagger docs. API on AWS EC2, database on Amazon RDS in Sydney, frontend on Vercel, deployed through GitHub Actions.
- Wrote the requirements specification (ISO/IEC/IEEE 29148, 85+ functional requirements) that opened the platform to more universities with separate data per tenant, covering Privacy Act 1988 and Spam Act 2003 obligations.

Earlier projects

- **Custom Rule Engine:** modular rule evaluator with REST APIs and Jest unit tests, built in one day for a hackathon and selected. github.com/mbishnoi29786/custom-rule-engine
- **LetsChat:** encrypted real-time chat app with Flask, Socket.IO and SQLite, built for Harvard's CS50. github.com/mbishnoi29786/LetsChat

EDUCATION

Charles Darwin University, Sydney NSW **Jul 2025 – May 2027 (expected)**
Master of Information Technology (Information Systems)

- Relevant units: Information Systems Practice (capstone), Principles of Software Systems, ICT Business Analysis, Machine Learning, AI and Algorithms.

PCTE Institute of Engineering and Technology, Ludhiana, India **Jul 2019 – Jul 2023**
Bachelor of Technology, Computer Science and Engineering (CGPA 7.8/10)

LEADERSHIP AND VOLUNTEERING

Casual Hands, Sydney NSW **2026 – Present**
Event Volunteer and Team Leader

- 108 volunteer hours at Vivid Sydney 2026, City2Surf 2026 and Ferragosto 2026, logged through CDU's VALue program.
- Team Leader for 4 of 6 shifts at Vivid Sydney, with a different team of 8 to 16 volunteers each night.
- Set break times and moved people between posts as crowds changed, and kept the team going on rainy nights.
- Handled two missing-person cases: helped a man find his wife, who was new to Sydney, and helped find a lost child, who turned up safe in the nearby kids' area.

CDU Sydney Social and Recreational Club (SaRC) **Oct 2026 – Present**
Secretary

- Elected Secretary on the first committee of a new social and recreational club for CDU Sydney students.
- Working with the committee to get the club established, including its constitution, bank account and logo.

Sydney IT Students Association (SISA), CDU Sydney **2026 – Oct 2026**
Event Coordinator

- Planned and ran social, networking and tech events for CDU Sydney IT students, including international students.
- Helped coordinate IT Code Fair 2026, CDU Sydney's main annual IT event, with the Faculty of Science and Technology, and designed its posters, name tags and certificates.
- Wrote two event funding proposals, both selected, and organised the End of Semester Party, Game & Connect and Co-Working Sessions.

Charles Darwin University, Sydney NSW **Feb 2026 – May 2026**
Casual Student Leader (paid university staff role)

- First point of contact for students on academic support, campus facilities and university policies.

CERTIFICATIONS

- **CS50's Introduction to Computer Science**, Harvard University (edX), 2024
- **CDU VALue (Volunteer Advantage Learning) Certificate**, Charles Darwin University, 2026

OTHER WORK EXPERIENCE

Uber Eats, Sydney NSW **2025 – Present**
Delivery Driver (self-employed)

- Flexible delivery work around study and other jobs, managing own hours and routes.

Rish Enterprises, NSW **Jul 2025 – Aug 2026**
Casual Warehouse Worker

- Filled, sealed and stacked paint products for dispatch on 7 am shifts, following site safety rules.

REFEREES

Available on request.