

KARAN JAYAKUMAR

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EDUCATION

University of Melbourne

BS Computer Science *GPA: 76*

Melbourne, VIC

Feb 2022 - Dec 2024

Bangalore International School

International Baccalaureate (IB) *GPA: 45/45 99.95 ATAR Equivalent*

Bangalore, India

Aug 2019 - Aug 2021

EXPERIENCE

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Full Stack Software Engineer

Melbourne, VIC

Aug 2024 - Present

- Acted as the primary engineer under the CTO, owning technical direction, system design, and day-to-day engineering decisions across all product surfaces.
- Served as the go-to technical lead for feature development, building three core features that led to a 20% improvement in conversion for Enterprise customers.
- Coordinated a team of 4 engineers, running daily standups, creating and assigning tasks related to core features, and resolving technical blockers.
- Introduced major CI/CD improvements, including server linting and type checking for frontend Next.js builds, automatic daily server deployments via SSM, and optimization of deployment pipelines.
- Collaborated with the CTO to implement a company-wide on-call rotation and post-incident review process, improving uptime from 99.6% and eliminating recurring five-minute daily downtime caused by memory leaks.
- Built and maintained a Postgres data warehouse powering BI insights, backfilling data for 60,000+ users using Segment and Auth0.
- Integrated AI-powered Slack tools for internal knowledge and documentation management, streamlining team workflows and keeping documentation automatically up to date.
- Led sales demos and post-sales technical integrations for 10+ enterprise customers, contributing nearly \$100K in ARR.
- Took ownership of all first-round engineering interviews and successfully hired a new engineer, strengthening team growth and capabilities.
- Assisted in developing and implementing a tiered subscription and usage-based paywall system, contributing to revenue growth beyond \$1M AUD.

Sincidium

Software Engineer Intern

Melbourne, VIC

Jun 2024 - Aug 2024

- Assisted in scaling an ed-tech startup backend with FastAPI and Next.JS contributing to the successful raising of \$600K AUD through Berkeley SkyDeck VC Program.
- Collaborated closely with a team of 6 engineers, coordinating development efforts and ensuring timely delivery of core features.
- Led feature development, including AI-powered quizzes and a RAG (Retrieval-Augmented Generation) pipeline for educational tools.
- Integrated telemetry using OpenTelemetry and Jaeger, reducing debugging time by 30% through enhanced trace visibility.
- Containerized local development services with Docker, streamlining local development and CI/CD pipelines.
- Deployed serverless functions using Azure Functions, and configured Azure Monitor alerts to proactively track performance and uptime.

University of Melbourne

Research Assistant

Melbourne, VIC

Jan 2024 - Jun 2024

- Cleaned and pre-processed data, resulting in reduction in noise and artifacts, improving the quality of analysis.
- Implemented data cleaning scripts in Python, reducing data preprocessing time and enabling faster analysis turnaround.
- Developed interactive data visualizations using Matplotlib and Plotly, utilized by 3 teams at the University of Melbourne.

- Delivered comprehensive IT support for software, hardware, and digital learning tools to university staff and students.
- Developed and maintained over 20 webpages using HTML, CSS, JavaScript, and Matrix CMS, improving accessibility and user experience.
- Collaborated with lecturers and PhD students to build simple interactive web apps used by over 100,000 users across various disciplines.

SKILLS

Languages:	Python (Advanced), JavaScript/TypeScript (Advanced), Go (Intermediate), Java (Advanced), Rust (Beginner)
Frameworks:	React, React Native, Next.js, FastAPI, Flask, Spring Boot, Expo
Infrastructure & Tools:	AWS (EC2, S3, SQS), Azure, Docker, Kubernetes, PostgreSQL, Redis, Datadog, Segment

PROJECTS

Messenger <i>Java, React</i>	https://github.com/KaranJayakumar/messenger
Designed and developed a complete real-time messaging application using Java, Spring Boot, React, and Redux.	
Remember (Ongoing) <i>Golang, React Native</i>	https://github.com/KaranJayakumar/remember
A React-Native Mobile App to remember things about the people you love.	

AWARDS

Full Scholarship @ The University of Melbourne	University of Melbourne
Awarded 100% Tuition Scholarship valued at over 100,000 AUD by the University of Melbourne on Academic Merit. Feb 2022	