

ASHVIN ROKADE

Hamilton, NZ | ashvinrokode@gmail.com | +64 022 699 2128 | ashvinrokode.com | github.com/AssassinAsh | linkedin.com/in/ashvin-rokode

PROFILE

Software engineer with around three years of fintech experience (Java, Go, Spring Boot, microservices) and recent full-stack product work (Next.js, TypeScript, realtime systems, AI integrations). Currently an MSc (Research) student at the University of Waikato, working full-time on explainable AI research for in-hospital mortality prediction using New Zealand health data. Seeking a junior, graduate, or internship software engineering role in New Zealand, full-time or part-time alongside study.

WORK AUTHORISATION

NZ Student Visa (research) – no hourly work restrictions, valid until 20 July 2027. Based in Hamilton; available for remote, hybrid, or on-site roles across the Waikato and Auckland regions.

EDUCATION

Master of Science (Research), Computer Science – University of Waikato, Hamilton, NZ Feb 2026 – Jun 2027

Current research (COMPX594): Explainable Machine Learning for Admission-Time In-Hospital Mortality Prediction – validation using New Zealand National Minimum Dataset (NMDS) hospital events - [Live Demo](#)

Dissertation (COMPX591): XAI for Clinical Triage Prediction - benchmarking 7 ML models on MIMIC-IV using SHAP and LIME · 82% (A-)

Coursework: A+ in Extremely Parallel Programming (COMPX553) and Deep Learning (COMPX525)

Bachelor of Engineering, Computer Science – IET DAVV, Indore, India Aug 2016 – Oct 2020

CGPA 7.89/10 · Data Structures, Database Management Systems, Design & Analysis of Algorithms, Data Analytics with Python

TECHNICAL SKILLS

- Languages: Java, Go, Python, JavaScript / TypeScript
- Frameworks & tools: Spring Boot, React, Next.js, Microservices, gRPC, Jenkins, GitHub Copilot
- Databases: MySQL, MongoDB, Redis, PostgreSQL, Supabase
- Other: REST APIs, WebSockets, CI/CD, Unit testing, System design

PROFESSIONAL EXPERIENCE

Software Engineer – Nuclei Feb 2021 – Apr 2023

Full-stack fintech engineering · FedMobile banking application · India

- Split a monolith into microservices, improving application uptime from 90% to 99%
- Built a Redis distributed caching layer that lowered database calls by 95%
- Built an Analytics Service in Go processing 1.3M events daily, improving data collection reliability by 80%
- Developed gRPC web endpoints, reducing user-facing latency by around 30%
- Implemented a retry mechanism that cut backend thread consumption by 7x
- Reduced release creation time from 1 hour to 5 minutes by building a Jenkins CI/CD pipeline
- Wrote 500+ unit tests across web services and APIs, reaching ~90% bug detection accuracy
- Set up PR review templates and SonarQube checks, cutting code review time in half

Software Engineer Intern – Nuclei Jan 2020 – Jun 2020

India

- Contributed to service integration across 7 major banking applications, reducing testing time by 50%
- Developed customer-facing features that lifted revenue generation by 30% for partner banks

Independent Product Development – Self-Directed May 2023 – Jan 2026

Remote

- Designed, built, and shipped four full-stack products end-to-end (CrickSnap, Dehla Pakad, ShuoHanyu, Groky – see Projects) while preparing for postgraduate research in New Zealand

PROJECTS

CrickSnap – Cricket Scoring Application – cricksnap.com Dec 2025 – Jan 2026

- Built a full-stack cricket scoring app (Next.js, TypeScript, Tailwind CSS, Supabase) serving 800+ active users
- Designed a scoring system for detailed statistics and player performance metrics, with optimised queries and caching for high-frequency updates

Dehla Pakad – Multiplayer Card Game – dehlapakad.com

Jul 2025 – Aug 2025

- Built a WebSocket multiplayer system (Node.js, Redis, PostgreSQL, React) supporting real-time, turn-based gameplay
- Optimised the backend with Redis caching to handle 6,000+ concurrent users

ShuoHanyu – Chinese Learning Platform – shuo-hanyu.git

May 2025 – Jul 2025

- Built an AI-powered language learning platform (Next.js, Supabase, OpenAI API) with authentication and progress tracking
- Moved OpenAI API calls server-side for improved security and usage control

Groky – AI Code Analysis Tool (Co-Founder) – groky-frontend.git

May 2024 – Aug 2024

- Developed AI-powered code flowchart generation with interactive codebase visualisation
- Owned end-to-end product development across UI/UX, AI integration, and backend architecture

CERTIFICATIONS

- Introduction to Generative AI – Google Cloud (2023)
- Software Engineering Virtual Experience – JPMorgan Chase (2023)
- Data Analytics Essentials – Cisco (2023)
- Python (Advanced) – HackerRank (2020)
- Data or Specimens Only Research – CITI Program (2026–2029)

LANGUAGES

English (fluent) · Hindi (native)