

BILAL AWSHID

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EDUCATION

Sri Lanka Institute of Information Technology | BSc (Hons) in IT, Software Engineering 2022 – 2026

- W GPA: 3.58 | CGPA: 3.58 — Second Class Honours (Upper Division); all degree requirements completed
- Faculty of Computing Certificate of Excellence (Dean's List), 2023

PROJECTS

GradeLoop — AI-Powered Learning Management & Assessment Platform [GitHub]

Tech: Go (Fiber, gRPC), Python (FastAPI), TypeScript (Next.js), Kong API Gateway, Docker, RabbitMQ

- Co-architected a polyglot distributed system of 12 microservices, isolating domain management in Go and specialized ML/AI pipelines in Python FastAPI.
- Implemented a two-pass asynchronous code evaluation pipeline on RabbitMQ, combining AST-based semantic clone detection, syntactic analysis, and keystroke-analysis event streams.
- Used an LLM-as-judge to generate tiered feedback, achieving a 0.937 grading score.

CCMM — Distributed Code Complexity Analyzer [GitHub]

Tech: Java (Spring Boot), Node.js, Express, React, Maven, WebSockets, REST APIs

- Designed a multi-tier analysis architecture decoupling AST services (Spring Boot) from dynamic client management end routines.
- Implemented static analysis algorithms for Halstead metrics (volume, difficulty, effort) and cyclomatic line distributions across uploaded codebases.
- Added communication protocols to enable concurrent, real-time multi-user editing, immediate metrics re-evaluation, and chat via WebSockets.

EXPERIENCE

**Bondstreet ONE (PVT) Ltd
Software Engineer**

*Remote
Nov 2025 – Present*

Tech: Next.js, React, TypeScript, REST APIs, Tailwind CSS, State Management

- Engineered component-driven UI architectures and server-rendered page flows in Next.js.
- Designed stateful booking and inventory API patterns for high-throughput web features.

**Axcertro
Software Engineer - Intern**

*Sri Lanka
Oct 2024 – Mar 2025*

Tech: Flutter, Dart, JavaScript, Laravel, REST APIs, CI/CD, Git

- Implemented client-side caching and persistent state in Flutter Web (e.g., Hang10) to minimize latency.
- Integrated RESTful API contracts and view-model bindings across Flutter, JS, and Laravel.
- Executed automated CI/CD deployment workflows and participated in peer code reviews.

SKILLS

Languages Go, Python, TypeScript, JavaScript, Java, Dart, C, SQL

Frameworks & Tools Next.js, React, FastAPI, Go Fiber, Spring Boot, Flutter, Node.js/Express, Docker, Firebase, Redis, MongoDB, Git

Focus Areas Distributed systems, microservices architecture, applied ML

CERTIFICATIONS

Certificate in Networking Basics — Cisco

2022

From Relational Model (SQL) to MongoDB's Document Model — MongoDB

2026

PUBLICATIONS

1. Co-author, *A Scalable Hybrid LSH-Based Framework for Code Clone Detection*, IEEE ICHORA 2026 [Paper].