



BOMAL DE SILVA

Software Engineering Intern Candidate | BSc Information Systems Undergraduate

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PROFESSIONAL SUMMARY

Information Systems undergraduate at the University of Colombo School of Computing with a **3.93/4.00 GPA** and **Director's List recognition in all completed semesters**. Experience applying software engineering principles through academic and personal projects involving **object-oriented programming, application architecture, database systems, REST APIs, web development, computer networking, mobile development, and information system security concepts**. Seeking a Software Engineering internship to contribute to real-world software development while expanding industry experience.

TECHNICAL SKILLS

Languages: Java, C++, TypeScript, JavaScript, Python, C, Kotlin, Dart, SQL, HTML, CSS

Frameworks / Libraries: Spring Boot, Angular, Flutter, Android, JavaFX, React, D3.js

Software Engineering: OOP, Data Structures & Algorithms, REST APIs, Database Design, SOLID, MVC, Layered Architecture, Cloud Computing, API Integration, Responsive Web Design

Security Concepts: Authentication, Authorization, Access Control, Encryption, Hashing, Secure Communication, TLS/SSL

Networking Concepts: TCP/IP, OSI Model, Socket Programming, Client-Server Architecture, HTTP/HTTPS, DNS, IP Addressing, Ports & Protocols, Networking Fundamentals

Database & Persistence: MySQL, PostgreSQL, SQLite, JDBC, Hibernate, JPA, Room

Tools: Git, GitHub, AWS, Docker, Maven

PROJECTS

LegalConnect - Legal Consultation & Lawyer Practice Management System

- Academic group project developing a platform for client legal consultations and lawyer practice management, with client, lawyer-assistant, and admin workflows.
- Designed functional workflows covering lawyer verification, appointment booking, document attestation, land-registry requests, reporting, audit logs, and chatbot disclaimer handling.

TaskFlow – Project & Issue Management System | *Spring Boot / Java / PostgreSQL / REST API / Docker / GitHub Actions*

- Developed a RESTful project and issue management system with user authentication, project management, issue tracking, status updates, priorities, and role-based access control.
- Designed a layered backend architecture with Spring Boot and PostgreSQL, implemented REST APIs and validation, and containerized the application with Docker and automated build and test workflows using GitHub Actions.

Modern Mobile Text Editor with Incremental Version Control | *Kotlin / Android Studio*

- Academic project in development for technical writers and developers, with local file management, Markdown editing, search/replace, undo/redo, and crash-recovery history.
- Designed incremental version history to avoid unnecessary duplicate storage while preserving recoverable file states.

Store Handler V2.0 | *JavaFX / SQL / Hibernate / JPA / Maven*

- Extended a customer-and-order management application from MVC to layered architecture, separating presentation, business, and data-access responsibilities.
- Implemented database persistence and object-relational mapping using JDBC, Hibernate, and JPA.

C Network Server | *C / Socket Programming / TCP/IP*

- Developed a client-server application in C using socket programming to establish network communication between clients and a server.
- Implemented socket creation, binding, listening, connection handling, and data exchange over TCP, applying fundamental client-server and networking concepts.

EDUCATION

University of Colombo School of Computing (UCSC) - BSc in Information Systems (Undergraduate) | GPA: 3.93/4.00 |

Director's List: All completed semesters

Richmond College - G.C.E. Advanced Level, (2023): 3 A's; District 9th, Island 88th

LEADERSHIP & ACTIVITIES

Secretary, Students' Union, University of Colombo School of Computing - student leadership and coordination

President, Technology Society, Richmond College

- Established the Technology Society to build a student community around technology and organized a technology day featuring a hackathon and related events.

CERTIFICATIONS & ACHIEVEMENTS

- Director's List - University of Colombo School of Computing, all completed semesters; GPA 3.93/4.00
- University of Moratuwa - Full-Stack Developer Program
- University of Moratuwa (CODL) - Python for Beginners; Python Programming Language; Web Design for Beginners; Front-End Web Development; Project Management (2022-2025)
- Institute of Computer Engineering Technology - Trainee Full-Stack Developer Program (2024)