

# SHAIKH NAIMA LABIBA

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Early-Career Software Engineer | Backend, Payments, Identity & Data Integrity

## PROFILE

Early-career software engineer completing a Bachelor of Computer Science at RMIT, with industry experience building backend migration tooling, validating high-volume enterprise datasets, and debugging production-like systems. Strong foundation in Java, data structures and algorithms, SQL, Node.js/TypeScript, C++ systems programming, and end-to-end delivery. Interested in trust, identity, payments, and reliable systems that operate correctly at scale.

## TECHNICAL SKILLS

**Languages:** Java, Python, JavaScript/TypeScript, C++, SQL

**Backend & APIs:** Java/Spring Boot fundamentals, Node.js, Express, REST APIs, authentication flows, server-side debugging, data validation

**Data, Systems & Reliability:** SQL joins/aggregations/indexing, reconciliation, migration validation, root cause analysis, Linux CLI, Bash

**Testing & Delivery:** JUnit/Mockito fundamentals, manual/unit testing, Valgrind, Git/GitHub, CI/CD concepts, Docker, Jira, Agile collaboration

## PROFESSIONAL EXPERIENCE

**Technical Consulting Intern** | Astral Pty Ltd, Jul 2025 - Dec 2025 | *Melbourne, Australia*

- Contributed to backend data migration tooling for large-scale OpenText enterprise systems, including a **3M+ object** migration across legacy and modern document platforms.
- Used SQL to reconcile and validate high-volume data across complex schemas, identifying metadata mismatches, configuration issues, and data quality risks before release.
- Built Node.js utilities to automate data transformations and generate migration-ready configuration files, reducing manual processing effort and error-prone handoffs.
- Debugged metadata, environment, port/protocol, and connectivity failures; documented root causes and remediation steps for technical and non-technical stakeholders.
- Collaborated with senior engineers during code reviews, troubleshooting, deployment preparation, and production-support workflows for customer-facing systems.

## TECHNICAL PROJECTS

**Public Transport Ticketing Database Backend (MyKi-style)** | *SQL Server, T-SQL, Azure Data Studio*

- Designed a normalized relational backend in 3NF for a payments-style ticketing system with users, cards, trips, fares, passes, and transaction records.
- Implemented stored procedures for touch-on logic, balance checks, ticket expiry, transfer windows, and pass validation; added indexes to improve large transaction queries.

**Fred's Tasty Treats Vending Machine & Admin System** | *C++14, ADTs, Linked Lists, File I/O, Valgrind*

- Built a terminal-based vending/admin system using custom linked-list ADTs, pointers, dynamic memory management, and file processing to load, validate, sort, and persist menu/coin data.
- Implemented purchase, refund, cancellation, and optimal change-making workflows with denomination validation, sufficient-change checks, balance updates, and rollback behavior.
- Created functional test cases and used Valgrind-style memory checks to verify file persistence, invalid-input handling, edge cases, and zero-leak dynamic memory behavior.

**SOIL - Full-Stack Organic Grocer Web Platform** | *React, Node.js, Express, REST APIs, MySQL, Sequelize, GraphQL*

- Developed backend APIs for authentication, profiles, shopping cart workflows, and relational database integration; added an admin GraphQL dashboard for product, review, and user workflows.

## EDUCATION

**Bachelor of Computer Science** | RMIT University, Expected Jun 2026 | *Melbourne, Australia*

- Relevant foundations: data structures and algorithms, object-oriented programming, databases, software engineering, artificial intelligence, cybersecurity, and full-stack development.

## ADDITIONAL

**Languages:** English and Bengali

**Volunteer Experience:** Front of House Pass Coordinator, The Game Expo Melbourne - coordinated peak-hour entry operations for 500+ attendees and resolved operational issues with cross-functional teams.