

# Sam Aliwa



samaliwa.com



sam-aliwa



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## Objective

Aspiring software engineering student specializing in software and mobile platform development, with a strong foundation in programming languages and frameworks. Seeking an **internship** to apply my knowledge in real-world projects, with a keen interest in contributing to software engineering or mobile development teams.

## Education

- *Jönköping University*, Bachelor of Engineering in Computer Science, Software Development and Mobile Platforms
- Expected Graduation: 2025 June
- Relevant Courses:
  - Object-Oriented Programming
  - Data Structures and Algorithms
  - Web Development
  - Mobile Development (Android & iOS)
  - Database Management

## Technical Skills

- Languages: C++, Java, JavaScript, Kotlin, Swift, SQL, HTML, CSS.
- Frameworks: Node.js, Express.js, SwiftUI, Jetpack Compose, Qt.
- Tools: Android Studio, VS Code, Qt Creator, Eclipse, Git.
- Concepts: OOP and OOD, Data Structures and Algorithms, Database Design and Management, Responsive Web Design, Agile Methodologies.

## Professional Experience as Assistant Nurse in Elderly Care

- **Locations:** Mariagården Smålandsstenar, Vitsippan Gislaved, Solbacka Reftele. **Summer** [2023, 2019, 2018, 2017]
- Transferable skills gained:
  - Effective Communication
  - Teamwork and Collaboration
  - Time Management
  - Problem-Solving
  - Attention to Detail
  - Adaptability
  - Empathy and Cultural Sensitivity

## Projects / Academic Contributions

- **Advanced Snake Game:** Enhanced the classic game using C++ and Qt, complex pathfinding algorithms.
- **Portfolio Web Application:** Crafted a Node.js and Express-based portfolio showcasing projects, with a responsive CSS design and SQLite database integration.
- **Weather App iOS:** A SwiftUI-based iOS app providing real-time weather updates and a 7-day forecast, utilizing CoreLocation and Open-Meteo API for accurate weather data.
- **Ludo Game Android App:** An engaging Ludo game for Android using Kotlin, featuring a modern UI/UX design and real-time multiplayer functionality.
- **Paint App:** Implemented a painting application in C++ with Qt, featuring advanced fill algorithms.
- **Calculation Algorithm:** A C++ calculator with a robust parsing mechanism for mathematical expressions.
- **BetterTicTacToe:** Refined the classic game in Java, emphasizing strong object-oriented design principles.
- **Webstore Database:** Structured an SQL database schema for e-commerce product and order management.
- **Simple Notepad:** Created a basic C++ notepad application with Qt, focusing on core text editing features.
- **Encryption Tool:** Java application for Caesar cipher encryption and decryption, demonstrating cryptography principles.