

Sam Aliwa



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sam-aliwa



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Objective

An ambitious Software Engineering undergraduate, specialized in software and mobile platform development with firm grounding in programming languages and frameworks, focusing on AI and machine learning. Seeking a thesis opportunity in collaboration with a company that puts my expertise into practice with real-life challenges, I am highly interested in the extension of research in AI and Machine Learning.

Education

- *Jönköping University*, Bachelor of Engineering in Computer Science, Software Development and Mobile Platforms

- Expected Graduation: 2025 June

- Relevant Courses:

- DevOps Fundamentals
- AI-programming
- Data Structures and Algorithms
- Web Development
- Mobile Development (Android & iOS)
- Database Management

Technical Skills

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

Professional Experience as Assistant Nurse in Elderly Care

Locations: Mariagården Smålandsstenar, Vitsippan Gislaved, Solbacka. **Summer** 2024, 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

- **FlexiCharge**: An educational mock-system developed with the company *Knowit* for electric car users, I was a developer in the cross-platform app team.
- **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.
- **BedTime iOS**: A SwiftUI-based iOS story creation app, developed in collaboration with a college, that involves parent in developing a customized bedtime story for their child, based on the age of the child, using ChatGPT API. Created with a college.
- **Ludo Game Android App**: An engaging Ludo game for Android using Kotlin, featuring a modern UI/UX design and real-time multiplayer functionality.
- **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.
- **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.
- **Encryption Tool**: Java application for Caesar cipher encryption and decryption, demonstrating cryptography principles.