Gangul Kalhara

Software Engineer | C# · .NET · React · SQL Server

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SUMMARY

Software engineer with 3.5 years of commercial C# experience at OSSEC Inc., a Japan-based data security software company. I build and maintain web applications on ASP.NET Core 6 (MVC, Web API, Entity Framework Core, SQL Server) and Windows desktop apps on .NET Framework (WinForms, WPF), working with Azure SQL, Azure Storage, Stripe payments and English/Japanese localization. Second-highest committer on the company's web platform, with about 1,600 commits and 480 Jira tickets across six repositories. I have also built React and Spring Boot applications with unit tests and GitHub Actions CI/CD. Currently completing a BSc (Hons) in Software Engineering (Cardiff Metropolitan University, UK).

SKILLS

Languages: C#, JavaScript, SQL (T-SQL), Java, Swift, Python, HTML, CSS

.NET & Web: .NET Core / ASP.NET Core 6 (MVC, Web API), ASP.NET Web API 2, Blazor (.NET 8), Entity Framework Core / EF6, Razor views, jQuery, Bootstrap, React.js (Vite, React Router, Axios)

Desktop: .NET Framework 4.7.2, Windows Forms, WPF, Windows services, Swift / SwiftUI (macOS)

Databases: Microsoft SQL Server (schema design, SQL Server Database Projects), Azure SQL, MySQL (stored procedures, triggers), MongoDB, SQLite

Cloud & DevOps: Microsoft Azure (Azure SQL, Azure Storage), IIS, Git, Bitbucket pull requests, GitHub Actions CI/CD

Testing: JUnit 5, Mockito, NUnit, SpecFlow (BDD), FlaUI UI automation

Practices & Tools: REST APIs, Agile / Scrum (Jira), SDLC, code reviews, authentication and security (2FA, JWT), Visual Studio, SSMS, Postman

EXPERIENCE

Associate Software Engineer, OSSEC Inc. Oct 2023 - Present
Software Engineer Intern, OSSEC Inc. (converted to full-time) Apr 2023 - Oct 2023

About 1,600 commits, 480 Jira tickets and 510 merged pull requests across six repositories of the OnCrypt data security product, working with a Japan-based team in Agile sprints with Bitbucket code reviews.

OnCrypt Web Platform | ASP.NET Core 6, EF Core, SQL Server, Azure May 2023 - Oct 2026

- Second-highest committer of about 30 developers (636 commits, 116 Jira tickets), building features end to end from SQL Server tables and EF Core repositories to controllers, Razor views and jQuery.
- Built and extended **REST APIs** used by the Windows, macOS and mobile apps, including multi-device decryption, OS-specific notifications and dashboard activity counts kept consistent across all three clients.
- Built login security: account lockout, two-factor authentication (email and SMS OTP), trusted devices and real-time sign-out on password change. Created 8 and changed about 19 **SQL Server** tables.
- Built staff admin-panel modules (admins, companies, licenses, purchase records, revenue, audit logs), and fixed Stripe amount, tax and time-zone errors in redesigned English/Japanese invoice emails and PDFs.

OnCrypt Enterprise | ASP.NET Web API 2, WinForms, Blazor, EF6, Active Directory Jun 2026 - Aug 2026

- Built customer-approval and user-management features across a Web API 2 service, WinForms client and server apps, and two databases (SQL Server, SQL Server Compact), with **Active Directory** filtering, smart-card authentication and audit logs.
- Merged 33 pull requests in about 8 weeks on a new codebase, starting with 9 QA bug fixes in the first week.
- Added a profile panel to a **.NET 8 Blazor** portal, deployed it on IIS, and fixed a publishing failure that broke the login page by adding a post-publish build step.

OnCrypt for Windows | .NET Framework 4.7.2, WinForms, WPF, Windows services May 2023 - Oct 2026

- Delivered features and fixes in a 28-project **.NET Framework** solution, including license restrictions, log management, an encrypted activity log and multi-device support.
- Fixed 6 **WPF** QA bugs in one week during the move from WinForms to WPF, including a fix lost in a branch merge.

OnCrypt for macOS | Swift, SwiftUI, SQLite Apr 2025 - Oct 2026

- Founding developer and top committer (581 commits, about 52%, about 270 Jira tickets), building encryption, mobile-approved decryption, USB protection and file sharing at feature parity with the Windows app.
- Moved local storage to an encrypted SQLite database (GRDB, SQLCipher), and later found and fixed a hidden flaw that had left it unencrypted.

QA Automation Suite | C#, FlaUI, SpecFlow, NUnit — Sep 2026 - Nov 2026

- Main contributor to a C# **UI test automation** suite for three desktop apps. Best regression run: 199 of 215 tests passing.
- Raised QA's passing tests from 116 to 186 of 212 by finding the root cause of each failure, and wrote 153 test scenarios for the WPF app in 5 days.

PROJECTS

Sunrise Dental Clinic: Appointment & Patient Management System — BSc Coursework 2026

Three-tier Spring Boot system with 41 REST and web endpoints, role-based security (Spring Security, BCrypt, CSRF) and a MySQL database with 10 tables, stored procedures, functions and triggers. Built test-first: 268 automated tests with 78.8% coverage, and a GitHub Actions CI/CD pipeline with three jobs and tagged releases.
Tech: Java 17, Spring Boot 3, MySQL 8, JUnit 5, Mockito, GitHub Actions

Ocean View Resort: Room Reservation System — BSc Coursework 2026

React front end with 9 pages (React Router, protected routes, Axios) and a 14-endpoint Spring Boot REST API secured with JWT. Covers room availability checks, automatic billing, check-in and check-out, and reports. Unit tested with JUnit 5 and Mockito, with a GitHub Actions build.
Tech: React 18, Vite, Java 21, Spring Boot, MongoDB, JWT

WebSentry: AI-Powered Phishing Detection Extension — Final Year Project 2026

Browser extension that scores each website for phishing risk in real time and explains the result in plain language using the Claude API. Built the Spring Boot API, a Python FastAPI machine-learning service, a React admin dashboard and MongoDB Atlas storage. Reached 88.75% accuracy and 98.7% precision on a frozen test set.
Tech: React, Spring Boot, Python (FastAPI, XGBoost), MongoDB, Claude API

EDUCATION

BSc (Hons) Software Engineering — Nov 2025 - Present
Cardiff Metropolitan University, UK (delivered by ICBT Campus, Galle)

GCE Advanced Level — 2019
Richmond College, Galle

COURSES & LANGUAGES

Fundamentals of Azure OpenAI Service, Microsoft Learn (Dec 2023)
Languages: English (professional working proficiency), Sinhala (native)
References available on request.