RUI SECA

CONTACT DETAILS

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SKILLS

Programming Languages:
- JavaScript/TypeScript
- Python
- C#/.NET
- C++
- Dart
- PHP
- HTML5/CSS3

Frameworks & Libraries:
- React.JS
- Flask
- Flutter
- Xamarin Forms
- Express.js
- Node.js
- Chart.js

Databases:
- SQL database
- Firebase
- MongoDB
- Microsoft Azure
- Azure Cosmos DB

Development Tools:
- Git/GitHub
- Visual
- VS Code
- Android Studio
- RESTful API
- FFmpeg
- OAuth2 Authentication

Security & Performance:
- CSRF Protection
- Authentication Systems
- Session Management
- Secure Coding Practices
- Multi-threading
- API Integration
- Fault-tolerant Processing

LANGUAGES

Seeking a junior software developer position

PERSONAL STATEMENT

Aspiring Junior Software Developer with a solid academic background in Computer Science and hands-on experience developing cross-platform mobile and web applications. Currently pursuing an MSc in Cyber Security while building expertise in full-stack development across multiple technologies including Python, .NET Framework, React.js, Flask, and Flutter. Experience with automation systems, API integrations, and developing secure applications. Skilled in creating user-centered solutions with a focus on security, performance optimization, and scalable architectures. Seeking an entry-level position to contribute effectively to software development while expanding technical knowledge in a professional environment.

Projects

SolarVita - Mobile Fitness & Sustainability Application

Technologies: *Flutter, Dart, Provider, RESTful APIs, ExerciseDB API, TheMealDB API, Google Vision API*

A comprehensive mobile application that combines fitness tracking with eco-consciousness, providing users with a sustainable approach to health and wellness.

Key Features:

- *Exercise database integration with real-time data fetching*
- *Multi-language support with localization in 10 languages*
- *Dynamic dark and light theme management*
- *Personalized workout tracking and progress monitoring*
- *Eco-friendly tips integrated throughout the fitness journey*
- *AI assistant for workouts and image calories analyzer*
- *Meal planning with environmental impact metrics*

GitHub: https://github.com/RuiSeca/SolarVita
Live Demo: Appetize.io Demo

Savannah Bites - Full Stack Restaurant Platform

Technologies: *MongoDB, Express.js, React.js, Node.js, Stripe API, JWT Auth, Nodemailer, RESTful API*

A fully functional restaurant website with integrated ordering system, payment processing, and automated communications to streamline restaurant operations.

Key Features:

- *Secure client data storage with MongoDB Atlas*
- *Robust server-side operations with Node.js*
- *Seamless frontend-backend integration using RESTful APIs*
- *Secure payment processing via Stripe gateway*
- *Automated order confirmation emails*

GitHub: https://github.com/RuiSeca/savannah-bites
Live Demo: https://savannah-bites.onrender.com/

YouTube Content Automation System - Full-Stack Automation Platform

Technologies: *Python, Flask, JavaScript, RESTful APIs, OAuth2, FFmpeg, Threading, Chart.js, CSS*

A comprehensive web application that automates the entire YouTube content creation pipeline, from content ideation to publishing, supporting both standard videos and Shorts format.

Key Features:

- *Flask-based web interface with responsive design*
- *Real-time job tracking system with progress visualization*
- *Multi-threaded processing for concurrent video generation*
- *Integration with AI services (OpenAI, ElevenLabs)*
- *Specialized interfaces for standard videos and YouTube Shorts*
- *Comprehensive analytics dashboards for video performance metrics*
- *Secure YouTube API authentication*
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GitHub: *https://github.com/RuiSeca/youtube-automation*

CSRF Attack Demonstrator - Educational Security Platform

Technologies: *PHP, MySQL, JavaScript, HTML5, CSS3, PDO, MySQLi, Session Management, CSRF Protection*

An educational web application demonstrating Cross-Site Request Forgery (CSRF) vulnerabilities and protection mechanisms through practical examples, developed as part of MSc Cyber Security coursework.

Key Features:

- *Dual transfer systems: vulnerable and secure implementations*
- *Real-time balance tracking and transaction history*
- *Automatic detection and reversal of unauthorized transfers*
- *Interactive CSRF attack simulation*
- *Multiple test user accounts for comprehensive testing*

GitHub: *https://github.com/RuiSeca/CSRF-attack*
Live Demo: *http://crfs.infinityfreeapp.com/public/index.php*

University Projects

InstaFood - Mobile Commerce Solution

Technologies: Xamarin Forms, Firebase, C#, HTML, CSS
A cross-platform mobile application that connects local restaurants with customers, enabling digital menu browsing and online ordering through an intuitive interface.

Key Features:

- *Restaurant profile and menu management system*
- *User authentication and profile management*
- *Real-time order processing and tracking*
- *Responsive design for multiple device sizes*
- *Secure data storage with Firebase*

Car Sale App
- *Simulated a car sales environment with dynamic offers and special conditions based on car make and model.*
- *Technologies: C#, SQL Server Database (T-SQL)*

Education

Anglia Ruskin University
Cambridge, England
Bachelor of Science - BEng (Hons)
Computer Science
September 2020 - July 2023

University of Surrey
Surrey, England
Master of Science - Cyber Security
September 2024 - September 2025 (In Progress)

WORK HISTORY

Estates & Management Limited
London, England
Administrator, Credit Control Department
August 2023 – Present

Manage credit control procedures for freehold and leasehold properties
Utilize advanced Excel reporting and data analysis through Cube platform
Communicate effectively with customers to resolve financial queries
Process financial transactions with attention to detail and accuracy