

Renos Kerkides

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Summary

Software developer specializing in web and mobile app development, currently pursuing an MSc in Software Development. Leveraging a background in Business Psychology to bring a multidisciplinary approach to problem-solving. Proficient in Java, C#, Python, JavaScript (with TypeScript), and frameworks such as Django, React, React Native, and Spring Boot.

Education

September 2023 – September 2024 University of Glasgow:

*MSc Software Development (**Predicted for Distinction**)*

- Taught GPA: A3 (78-83%)
- Modules studied: Advanced Programming, Algorithms and Data Structures, Database Theory and Analytics, Enterprise Cyber Security, Programming, Software Engineering, Systems and Networks, Internet Technology, Human Computer Interaction Design and Evaluation, MSc Team Project, MSc Project.

September 2020 – July 2023 Loughborough University:

*BSc (Hons) Business Psychology (**First-Class Honours**)*

- Degree Mark: 71.2%
- Modules studied include: Quantitative Research Methods, Information and Knowledge Management, Behavioural Decision Science, Consumer Behaviour, Brain and Behaviour, Work Psychology, Leading and Developing Others, Psychological Approaches to Human Resource Management, Organizational Behaviour, Entrepreneurship and Innovation, Psychology of Workplace Health, and Human Cognition.

Main Projects

- **MindfulProgress**
 - **Architected** a dual-interface mental health support platform integrating a **mobile** mHealth application with a therapist-centric **web** interface.
 - Developed the mobile application using **React Native** and **Expo SDK**, implementing features such as mood tracking, exercises, and a personalized 'Safe-Space' for crisis management.
 - Designed and implemented the web interface with **ReactJS**, using **TypeScript** for enhanced code maintainability and leveraging **Material-UI** for a responsive, user-friendly experience.
 - Built the backend using **Django** and **PostgreSQL**, focusing on secure, scalable data management, and integrated **Django Channels** and **Redis** to support real-time **WebSocket** communications for live updates and notifications.
 - Optimized background task management by integrating **Celery** with **Redis**, facilitating asynchronous processing for notifications, data analysis, and automated task scheduling.
 - Achieved a mean System Usability Scale (SUS) score of 78.3, reflecting a high level of technical effectiveness in **user experience design** and **implementation**.

- Deployed the backend on **Heroku** and the frontend on **Netlify**, employing **CI/CD practices** to ensure robust, scalable, and performant deployment in production environments.
- **Personal Website**
 - Engineered a personal website using **React** with **Vite** to leverage its component-based architecture, enabling efficient, scalable development and seamless content updates.
 - Implemented **advanced UI features** such as a dynamic typing effect and interactive project cards to increase user engagement.
 - Utilized **Tailwind CSS** and **Bootstrap** to design a visually appealing and **responsive** user interface, ensuring quick customization and consistency across all pages of the website.
 - **Deployed** on **Netlify**, demonstrating the ability to optimize website performance and scalability in a production environment.
- **LearnHub**
 - Developed a dynamic learning platform using **Django**, enabling users to explore, create, and manage educational content across a variety of topics.
 - Designed a user-friendly interface with Django's **templating system**, providing a cohesive and intuitive user experience that promotes content interaction.
 - Implemented **complex data models** to handle categories, posts, comments, and user profiles, facilitating efficient data operations and interaction dynamics within the platform.
 - Incorporated full-text **search capabilities**, allowing users to efficiently search through posts and categories, enhancing the discoverability of educational content.
 - **Deployed** the application on a **cloud platform**, demonstrating expertise in deploying and managing web applications in a live environment.
- **Duelyst II Clone**
 - Quickly developed a functional clone of the Duelyst II game under **tight deadlines**.
 - Effectively applied **agile practices** to adapt to **changing requirements** and priorities, facilitating **collaboration** and iterative improvements throughout the development cycle.
 - Navigated through complex game logic, **AI** and software engineering challenges, ensuring the game was playable despite the **codebase's complexity** and initial disorganization.
 - Successfully **integrated** a pre-existing **frontend** with a newly developed **Java backend**, ensuring seamless communication and data flow between client-side and server-side components.
- **Portfolio**
 - Leveraged **Django** to create a portfolio website, highlighting my project portfolio and professional development journey as a software developer.
 - Utilized Django's advanced **template system** to ensure a uniform style across the site while maximizing code reusability and maintainability.
 - Implemented an **SQLite database** for efficient storage and retrieval of project details and blog posts, optimizing data handling processes.
 - Successfully **deployed** the application on **PythonAnywhere**, demonstrating proficiency in **cloud-based hosting** and application deployment strategies.
- **Teacher Resource Management System**
 - Architected a **Java**-based teacher management system, incorporating **object-oriented programming** to facilitate efficient data handling and user management.
 - Implemented robust, flexible, and scalable **data persistence** through Java serialization, ensuring reliable storage and retrieval of educational data.

- Implemented **design patterns** such as **Singleton** and **DAO**, and utilized **dependency injection** in service layer design, promoting loose coupling and ease of **unit testing**.
- Designed **UML Sequence** and **Class Structure Diagrams**, providing a clear architectural blueprint and facilitating understanding of data flow and system behaviour.

Skills

- **Languages:** Java, JavaScript/HTML/CSS, TypeScript, Python, Kotlin, C, C#, Assembly (Sigma-16)
- **Frameworks:** Django, React, React Native, Spring Boot
- **Database Management:** SQL, PostgreSQL, SQLite
- **Scripting and Shell:** Bash, PowerShell
- **Tools:** Git, Linux, Maven, Vite, Node.js, Thymeleaf, Material UI, Bootstrap, Tailwind CSS, UML, Expo SDK, Redis, Celery