



VALENTIN KISIMOV

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About

Values: Creativity, Simplicity, Impact, Innovation, Mastery

Aim and Purpose: Bringing improvements and positive change. Creating solutions for real-world problems.

If our goals align you can count on a dedicated teammate who is ready to run the extra mile to ensure a project's success. To get a better understanding of my work and background, please visit [Kisimoff OS](#).

Education

Edinburgh Napier University

BEng (Hons) Computing (2019-2023)

Relevant Courses: Object-Oriented Software Development, Algorithms and Data Structures, Advanced Database Systems, Advanced Web Technologies, Mobile Applications Development, Artificial Intelligence, Data Analytics, Secure Software Development, Operating Systems, Computational Intelligence, Multi-Agent Systems, Software Architecture

Technologies

Skilled with:

JavaScript, React, React-Native, C#, HTML, CSS, Git, Figma

Some Experience with:

C, C++, Go, Bash, Java, Python, R, SQL, WordPress, Adobe Creative Cloud

Tools:

Tailwind, Vite, npm, Flask, Nginx, Unicorn, Docker, Firebase, Ubuntu Server, HLF, IPFS, Jest

Experience

J.P Morgan

April, 2021

Virtual Experience Internship

React, Typescript, Python

As part of this virtual internship, I've completed two modules - front-end development and data visualization. My objective was to identify inaccuracies in stock price data visualization and implement effective fixes.

Projects

Kisimoff OS: Web Application

React, JavaScript, CSS, Figma

Inspired by Poolside.fm and the nostalgia of Windows XP, [Kisimoff OS](#) offers an engaging platform to explore my craft. It resembles an OS with several applications, including a terminal window. Additionally, it showcases my entire project portfolio, accompanied by a short video demonstration for each.

Visit

ESC The Loop: Mobile App (DSCT)

React-native, TypeScript, Java, Headless JS, Figma

Leveraging cutting-edge research on manipulative patterns and psychological tactics in social media, "ESC the Loop" is a smarter app timer designed to help users regain control over their digital habits. Upon timer expiration, the app sends customizable notifications at set intervals, offering an "escape route" redirecting users to their task list or an app of their choice. The app, while in alpha stage, provides a reliable foundation and a .apk file for testing. ESC the loop's features are wrapped in a neo-brutalist design and are enhanced by engaging animations and tactile feedback for an immersive user experience.

Video Demo | Learn more

GLASS: Distributed e-Governance Model

Go, Bash, Hyperledger-Fabric, IPFS, Docker

The GLASS project, funded by the EU, aims to improve the trust between government and citizens, by providing a transparent and efficient model to handle personal information. GLASS utilizes a permissioned blockchain to grant access only to validated users and organizations, encrypting and preserving data with the IPFS protocol. This simplifies the communication between governments, citizens, and businesses, cutting down on excessive bureaucracy. Our team developed a prototype, evaluating various strategies and approaches. My responsibilities included designing the communication protocols (chaincode written in Go) and integrating IPFS with the Hyperledger Fabric (HLF).

Video Demo | Learn more

Microgrid Market Maker: Multi-Agent System

C#, ActressMAS

Peer-to-peer multi-agent system, where each agent represents a household within a microgrid. This allows the evaluation of various auction and communication protocols and testing of architectural patterns. Two auction protocols were implemented and compared: a decentralized Dutch Auction and a Double Auction employing a central peer. The Double Auction demonstrated six times greater computational efficiency in a system with 20 agents, highlighting the potential drawbacks and cost of decentralization.

Learn More

Lunar Lander: Evolutionary Algorithm

Java, R, OpenRefine

The algorithm integrates an adaptive mutation rate, two crossover methods, and multiple activation and initialization functions, which are tunable as hyperparameters. This design creates an expansive search space, navigable using techniques like random and grid search. Each exploration generates a dataset which can be analyzed with tools like R-Studio, ggplot2 and OpenRefine to uncover valuable insights, patterns and relationships. The result is an EA that achieves excellent fitness values. The implemented strategy also sheds light on the algorithm's dynamics and performance.

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