Kieran Warwick

kieran.warwick@bath.edu | GitHub @ kw510
London, UK

Software Engineer at Thirdfort, Master Computer Science Graduate from the University of Bath, with First Class Honours. Open to new and interesting challenges, with opportunities for fast growth and self-development. Enjoys contributing to real world problems, making the world better and more secure!

Relevant Experience

Software Engineer Thirdfort *Nov. 2020 - Present*

- Developed a new security component and lead migration of existing records, achieving a zero downtime launch with over 32 million records migrated. It allows us the scale the system, improving GET requests 47%, to an average of 50ms.
- Lead a small team and developed a new billing component; Trained successor to take over component. Included transitioning Node to Go, Kafka to PubSub, http to gRPC, Kubernetes to Google Cloud Run.
- Coached and mentored joiners and members of the team, generally contributing to technical discussions.
- Helping with DevOps responsibilities including: Deploying Pods and Services to the Kubernetes cluster and managing PubSub topics + subscriptions. Also finding and solving ongoing production issues.
- Worked with the product, operations, design and support teams, helping deliver technical knowledge.

Taught Academic Representative Bath University *Oct. 2017 - June 2018*

- Gathered and represented students' opinions of the course upon Staff Student Liaison Committees, acting as a bridge of communication between students and the SU

Academic Peer Mentor Bath University *Oct. 2017 - June 2018*

- Mentored a small group of first year students, helping them with their studies and adjusting to university.

Education

University of Bath *2016-20*
Master of Computer Science | **First Class Honours**

Chichester High Schools' Sixth Form *2013-16*
A-levels: Maths: *A**, Further Maths: *A*, Physics *A*

Chichester High School for Boys *2011-13*
GCSEs: *6As, 3Bs, 3Cs* - including Maths & English

Academic Projects

Serious Game: Turing Machine Diagrams

Web application teaching Turing machines through the use of state-transition diagrams. Deployed at: `https://interactive-turing.herokuapp.com`

Analysis of Extended-Precision upon GPUs

Uses two floats to estimate a double, with arithmetic. Provides a speedup of up to 1.2 on consumer GPUs. Available at: `https://github.com/kw510/DFGPU`

References available on request

Areas of Knowledge

Machine Learning; Data Science; Cyber Security; Artificial Intelligence; Databases; Entrepreneurship; Parallel Computing; Networking; Safety-Critical Systems; Control and Cognitive Systems; Computer Architecture; Functional Programming; Algorithms and Data Structures; Visual Computing; Interactive Systems; Principles of Programming Languages; Full Stack Web Development.

Technologies

GoLang, JavaScript, Python, gRPC, Java, C, MATLAB, Node.JS, MongoDB, React, Haskell, OpenMP, MPI, SQL, NoSQL, PHP, HTML5, CSS, LaTeX, Windows, MacOS, Linux.

Awards & Interests

Winner of design competition for Ergo Computing.
Attending Hackathons with a small team.
Cyclist, going out with local cycling clubs.
Coffee enthusiast, with a AeroPress + hand grinder.