George Kaye

About

My clear logical thinking and adaptable approach to problem solving has underpinned my ability to study for a PhD in Computer Science from the University of Birmingham, which I am close to completing. I have the motivation to complete tasks on time and consistently manage my workload effectively. Additionally, my personable nature means I can work successfully in a team as well as independently. During my studies I have confidently delivered research talks and fielded questions across audiences from a variety of backgrounds. I also worked as an intern at Huawei's Programming Languages Lab, which has led me to pursue other digital roles in industry.

Contact

✉ georgejkaye@gmail.com
☎ +44 7544 646100
🌐 georgejkaye.com
🐙 georgejkaye

Technical skills

JavaScript TypeScript C#

SQL React/Next.js

HTML/CSS Python Docker

OCaml F# Haskell Scala

C/C++ Rust Java Linux

Git VS Code LaTeX

PowerShell Bash Vim

Interests

Hiking Canals and railways

Playing the piano

💼 Experience

Developer, Acturis Ltd
August 2024 - present
Working on the quoting engine used by the Acturis appliction, primarily in C# and Oracle SQL. Additionally used TypeScript/React for the development of internal tools used by both developers and business analysts, and PowerShell for automation of complex tasks such as mutation testing and gathering code quality statistics.

Teaching Assistant, University of Birmingham
September 2019 - June 2024
Supported the *Logical and Mathematical Foundations for Computer Science*, *Theories of Computation*, and *Compilers & Languages* modules. Have led regular group tutorials for 10-20 students and distributed the marking of assignments between the teaching assistants. Received awards in 2022 for going above and beyond my duties.

Research Intern, Huawei R&D, Edinburgh
January 2021 - November 2023
Worked as part of the Programming Languages Lab in designing a hardware description language in Huawei's new programming language. Developed compiler optimisations for the new programming language using the large C++ codebase.

🎓 Education

PhD in Computer Science, University of Birmingham
September 2019 - July 2024
Worked on a project entitled *Foundations of Digital Circuits*, Passed with minor corrections in September 2024. During this time presented technical talks to a variety of audiences at international conferences.

MSci in Computer Science, University of Birmingham (Honours, Class I)
September 2015 - July 2019
Studied modules including Compilers & Languages, Functional Programming, Software Workshop, C/C++, Operating Systems, Teaching CS In Schools

Malmesbury School
September 2008 - May 2015
A-levels: Maths A*, Further Maths A*, Physics A, Religious Studies (AS) A, Music (AS) B
GCSEs: 7A*s, 4As (including English and Maths)

🚀 Volunteering

Local Organiser, Twelfth Symposium on Compositional Structures
15-16 April 2024
Raised funding to host the next edition of this conference at Birmingham. Responsibilities included maintaining the conference webpage, organising social events, booking and setting up rooms, arranging catering, and working with the committee to assemble the selection of talks.
URL: https://www.cl.cam.ac.uk/events/syco/12/

Theory Seminar Organiser, University of Birmingham
March 2022 - March 2024
Inviting speakers for the weekly research seminar, communicating with both speakers, hosts and audience, and setting up and maintaining the room during talks; also campaigned for extra funding to provide accommodation for speakers.

Local Helper, Midlands Graduate School 2023
02-06 April 2023
Assisted with the *String Diagrams* course, guided students around campus and to/from various social events, plus provided technical assistance throughout the week.
URL: https://www.cs.bham.ac.uk/~mhe/events/MGS23/

Further Years Rep, Staff/Research Student Consultative Committee
September 2022 - July 2024
Championing research students' issues: successes include the preservation of permanent student desks, restoring student profiles to the university website, helping reform the progress monitoring system, and improving the School's cleaning policies.