

RICHARD JOHN HARRIS

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<https://stackoverflow.com/users/74496/rjh> • <https://github.com/richardjharris> • <https://richardjharris.github.io/>

Languages

English (Native)

Japanese (JLPT N1)

Education

2004 – 2008

BSc (Hons) Computer Science, *University of Bath*

First Class with honours.

Awards: Won Vodafone Group R&D project prize for user interface design and implementation of a tablet PC sketching application.

Professional Experience

2008 – present

Internet Services Developer, *Netcraft Ltd.*

Highlighted contributions:

- Scaled up automated phishing site classification pipeline from 100s to millions of URLs/day using threaded code, job queues, cloud technologies
- Conducted security tests of customer websites
- Rewrote internet surveying/scanning code to operate over the cloud in parallel, including the creation of a job processing system that is used by dozens of processes across the company.
 - A survey taking 1 month to run was reduced to 9 days.
 - Wrote a new operating system detection system that uses TCP traffic to determine the OS behind an IP address.
- Wrote many of the core libraries and packages used across the company.
- Involved in code reviews, recruitment, database administration, DevOps.
- Automated classification of phishing websites and other scams via their screenshots.

2008 – 2010

Web Programmer, *Curlidge Street Academy*

Created school website from scratch in PHP, including design, admin backend, auth, article editor, calendar events and file upload.

2004 – 2005

Web Programmer, *Noble Design*

Implemented a completely original e-commerce site. with payment processing and order management, in line with customer specifications.

Skills

AWS

Linux

Python

TypeScript

Dart/Flutter

Rust

JavaScript

MySQL

Certificates

- PCI Quality Security Assessor (2012-2014)

Recent Projects

2021 – 2022

Yomikun Database

Personal project to develop a database of Japanese names for educational purposes: involved automated extraction of names from various sources (Python) and a desktop/mobile app to provide access to the data (Dart/Flutter).