RICHARD JOHN HARRIS

Software engineer (backend, web, mobile)

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 https://github.com/richardjharris � https://richardjharris.github.io/

Languages

English (Native)   **Japanese (JLPT N1)**

Education

BSc (Hons) Computer Science, *University of Bath*   2004 – 2008
First Class with honours.
Awards: Won Vodaphone Group R&D project prize for user interface design and
implementation of a tablet PC sketching application.

Professional Experience

Internet Services Developer, *Netcraft Ltd.*   2008 – present
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.

Web Programmer, *Curledge Street Academy*   2008 – 2010
Created school website from scratch in PHP, including design, admin backend, auth,
article editor, calendar events and file upload.

Web Programmer, *Noble Design*   2004 – 2005
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 • Perl • JavaScript • MySQL

Certificates

- PCI Quality Security Assessor (2012-2014)

Recent Projects

Yomikun Database   2021 – 2022
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).