

Alexander Francis Neville

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Currently undertaking an undergraduate degree in Computer Science at the University of Birmingham, due to graduate in the summer of 2025. Seeking work experience in the disciplines of software engineering, system administration, cloud architecture and data science.

Highlighted Projects

Optical Character Recognition

🔗 github.com/afneville/OCR

C-implemented multithreaded image processing library & Python extension module; Python-implemented neural network; and JavaScript-implemented HTTP REST API with authentication. Uses only the libpng, numpy and express libraries.

Documentation Project

🔗 docs.afneville.com 🔗 github.com/afneville/docs

Markdown-formatted articles and build script for generating a static documentation website. A public version is hosted with AWS S3 and CloudFront. Deployment is performed automatically with the AWS CLI.

Education

BSc Computer Science *University of Birmingham*

2022 - Present

Attained a 77% average in the first year and anticipating First Class Honours.

A Level *Reading School*

2020 - 2022

Computer Science (A*), Physics (A*), Mathematics (A), Level 3 Extended Project Qualification (A)

GCSE *Reading School*

2015 - 2020

Computer Science (9), Mathematics (9), Physics (9), Chemistry (9), Biology (9), German (9), Ancient History (9), Latin (9), English Literature (8), English Language (7), Free Standing Mathematics Qualification (A)

Technical Skills

- Proficiency in the use and administration of Unix systems via the command line; automation of significant and repetitive tasks with shell scripting; and use of common Unix utilities - in both desktop and server settings.
- Familiarity with the C, C++, Python, Java and JavaScript languages and their respective build pipeline, environment, tooling, package management and common third-party libraries - where each is applicable.
- Proficiency in numerous markup and typesetting languages, including \LaTeX , HTML & CSS, Markdown and Org.
- Experience in distributed version control practices with Git.
- Experience in cloud computing fundamentals, including user management & permissions, security best practices, block & object storage, compute instances, load balancing, content delivery & caching and SDK/CLI usage (AWS & OCI).
- Experience in encryption practices & principles and the use of PGP & SSH key pairs for signing & encryption and authentication respectively.
- Knowledge of containerisation principles and proficiency in the use of common OCI-compliant container runtime engines (primarily Docker) and the creation & management of images & containers.
- Experience with multiple virtual machine hypervisors and full system virtualisation tools (primarily Linux KVM/QEMU).

Previous Employment

Sales Team Member *Clarks - Reading*

February - September 2022

June - September 2023

Held a part time job at a busy high-street retailer in a customer service role. Formed enduring professional relationships with associate colleagues and the management team, leading to a second period of employment at the same store a year later. Assumed greater responsibilities with growing experience in the role, including: managing the store's inventory; processing incoming and outgoing goods; and handling transactions.