

# Carlin MacKenzie

Edinburgh, Scotland  
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## EXPERIENCE

### Internet Security Company, **Netcraft** — **Computer Scientist**

JUNE 2019 — AUGUST 2019, JUNE 2020 — AUGUST 2020

Backend development maintaining internal systems in Perl and PHP. Creation of SQL queries and tables. Features I implemented improved phishkit classification by 50%. Initiated first redesign of the company website since 2013 improving UX and accessibility. Images available on request.

### Theatre Group, **C Venues** — **IT Manager**

JULY 2018 — SEPTEMBER 2018

Responsible for all IT across 6 venues, including ticket sales, bars, offices and IT support.

#### Voice over Internet Protocol

- Creation of SIP accounts, call groups, pick up groups, dial plans
- Adapting analogue phones to run over VoIP

#### Network

- Managing patch room and our 4 subnets
- Network maps
- WAPs and routers
- Remote access to networks on other sites

#### Printers – Ticket, Till, Inkjet

- Set up connection to IP printers
- Ensuring all users can print to the network inkjets

#### IT Store Room

- Created a new layout for the IT store room from scratch
- Created a logging system so equipment could be checked out

#### Via Ticketing System

- Teaching users how to use the system

#### Computers

- Imaging of Macs and MacBook

#### Goodtill – PoS system

- Managed reports, connecting IP printers to the system and menu design

#### Email Client

- Set up of IMAP accounts and troubleshooting user problems

### Charity, **Scottish Language Dictionaries** — **Document Processor**

MARCH 2018 — JUNE 2018

Parsing text from documents formats such as PDF and RTF. Removing formatting and standardising text for use in corpora, through extensive use of regular expressions and macros.

## FEATURED PROJECT

Namespace Database — Python tool that creates a database of edits from Wikipedia dumps. Although these dumps are 40GB XML files, this tool produces a database with 100x reduction in storage required. It is designed to be highly parallelised and with the ability to run on consumer hardware. A paper will be published on this project and hopefully presented on. The most challenging part of this project was designing a system that can run 24/7 with no downtime. This required careful error handling and logging.

## EDUCATION

I am in my final year of my BSc **Computing Science** degree at the **University of Edinburgh**. My third year was studying abroad at the University of Virginia

## SKILLS

Web Development and UX Design  
Proficient programmer in:

- Prototype-based languages like Python and Javascript
- Version control like Git
- Low level languages like Bash and Perl
- Higher order functions like map, fold and filter
- Regular Expressions

Vector Design

IT Support and Troubleshooting

Prioritising Goals

Communication and Decision Making

## REFERENCE

Available on request.

### School, **Robert Gordon's College** — *Pupil Council Leader*

AUGUST 2016 — MARCH 2017

Founded and laid the groundwork for the committee. Roles included recording all issues, delegating tasks, creation of surveys and communicating across departments, including heads of school.

### Café, **Dynamic Earth** — *Café Assistant*

NOVEMBER 2018 — PRESENT

Made coffees, operated the till and cashed up, cleaned tables and assisted customers with any queries that they have.

### Event Organiser, **3D/2D** — *Take Down Crew*

SEPTEMBER 3 2018 — SEPTEMBER 5 2018

Assisted with manual handling, deconstruction of the decking and the use of electric tools.

### Coffee Shop, **Cafe Noir** — *Front of House*

OCTOBER 2017 — JANUARY 2018

Operated cash register, prepared cold foods such as sandwiches, served coffee, organised displays, cleaned and sanitized all areas including toilets.

### Restaurant, **Josephine's Tapas** — *Waiter*

AUGUST 2017 — SEPTEMBER 2017

Managed customer orders, served food, operated cash register, maintaining hygiene and organising displays.

### IT Services, **University of Aberdeen** — *Desktop Deployment*

JUNE 13 2016 — JUNE 17 2016

Responsible for unpacking, imaging and delivering hardware in the University.

### Burger Van, **Helen's Kitchen** — *Cashier*

DECEMBER 2015 — JUNE 2017

Handled all cash transactions, customer orders, hygiene and organising displays.