Nikolaos Karaolidis

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EDUCATION

Sep 2020 – Jul 2024	**M.Eng.** in Computer Science	UNIVERSITY OF MANCHESTER, UK
	2nd Year Average: 81%	
Sep 2014 – Jun 2020	High School Diploma	VARVAKEIO PUBLIC MODEL HIGH SCHOOL, GREECE
	12th Grade Average: 96%	

PROJECTS

Ongoing

Personal Homelab

Adapted an old PC into a **Linux Server** for 40+ applications. Mainly used as a way to learn the latest technologies, practice new skills, and as a host for personal projects.

- **Arch Linux** as the base OS with **MergerFS** and **SnapRAID** as a storage and backup solution.
- **Docker**, **Docker Compose**, and **Portainer** as a container engine and management system.
- **Cloudflare Argo Tunnel**, **Nginx**, and **Let's Encrypt** for hosting, proxying, and SSL certificate automation.
- **Grafana**, **InfluxDB**, and **Telegraf** for constant system monitoring, stats visualization, and email alerts.
- **DevOps Stack** including a **VSCode server** and a self-hosted **Git** instance.
- Public and private **OpenVPN** instances and a **Tor** relay for remote management and privacy.
- Full-stack **media management server** including indexing, file downloading, metadata editing, and a personal streaming service.
- Much more, including a **blog**, a **private cloud** service for family/friends, and a **URL shortener**.

Sep 2020 - Jun 2021

EazyShop

Worked in a 6-person team to implement a **full-stack shopping list application**. Built using Python, Flask, Bootstrap, and MySQL.

- Configured and hosted a shared **MySQL** database using **Docker** for portability.
- Implemented **web scrapers** using **Python** for the 6 largest UK grocery store chains. Used to extract, parse, and import stock, pricing, and descriptions from all available products.
- Integrated the **MySQL** back-end with the **Flask** front-end and deployed the app using **Docker Compose**.

Jul 2019

CV Parser Script

Developed a **Python CLI Tool** that extracts, parses, and saves useful information from .pdf, .doc, and .docx CVs in a **FileFinder** database.

- Simple **XML parsing** for extracting information from Microsoft Word documents.
- **Optical Character Recognition with OpenCV** for extracting information from read-only PDF documents.
- **Natural Language Processing using NLTK** for categorizing text tokens such as names, addresses, or skills.
- **PyAutoGUI** for database interactions, due to limited database access which prevented API use.

INTERNSHIPS & VOLUNTEERING

Jun 2022 - Aug 2022

Softwire, Manchester Office, UK

Working with some of the UK's leading brands, Softwire designs tailored software and delivers innovative digital engineering expertise.

- Co-developed a web app using React Native, Typescript, and AWS Amplify in a 6-person team.
- Participated in daily stand-ups, retrospectives, sprint planning, and review meetings.
- Authored clean and maintainable code which was tested using unit, integration, and end-to-end testing.

Jul 2019

InterSearch Worldwide, Dubai Office

Ranked among the 30 largest executive search firms in the world, InterSearch Worldwide has 90 offices in 50 different countries.

- Automated Candidate CV and Financial Documentation Entry using the parser script.
- Refined E-mail spam filter.

Jan 2017

Nation-wide Bone Marrow Donation Volunteering Action

Created a promotional video using Adobe Premiere Pro for a nation-wide voluntary action to increase awareness about bone marrow donations.

LANGUAGES

- Native: Greek, Serbocroatian
- Fluent/C2: English
- Beginner/B1: German