

Nikolaos Karaolidis

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EDUCATION

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

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. <ul style="list-style-type: none">• 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 self-hosted GitLab instance and VSCode server.• Public and private Wireguard 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 2022 - Apr 2023	Wayfinder Third Year University Project. Collaborated with a research group from Lancaster University to develop an OS performance evaluation platform . Built using Go and Python. <ul style="list-style-type: none">• Designed experiments to benchmark performance of network-based applications such as Apache and Caddy.• Implemented multiple-architecture support using the QEMU virtual machine emulator, focusing on x86-64 and RISC-V.• Conducted testing and analysis to derive a memory-optimized Linux kernel configuration.• Performed maintenance and bug fixes on the Go codebase and reduced experiment runtime using RAM-based filesystems.
Sep 2020 - Jun 2021	EazyShop First Year University Project. Worked in a 6-person team to implement a full-stack shopping list application . Built using Python, Flask, HTML, Bootstrap, and MySQL. <ul style="list-style-type: none">• 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. <ul style="list-style-type: none">• 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**, **AWS Lambda**, and **AWS DynamoDB** 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