Max Levine

Curriculum Vitae

maxlevine.co.uk
+44 7710 679 495
max@maxlevine.co.uk
linkedin.com/in/bmaxlevine

PROFILE

A knowledgeable and proactive **Infrastructure Engineer** with a keen interest in **automation** and **efficient development practices**. Experienced with many industry standard DevOps tools, looking for a new challenge building intelligent development systems to solve modern problems.

EXPERIENCE

Data Infrastructure Engineer — **August 2020 - Present**

Morgan Stanley

Involved: Agile, BitBucket, FastAPI, Flask, Git, Jenkins, Jira, OpenAPI, PostgreSQL, Python, Redis, REST API, Treadmill

Lead developer for a bespoke config management system, built from scratch. Used Python's **FastAPI** framework to build a database-agnostic **RESTful API** conforming to the OpenAPI standard. Developed using an agile methodology with Jira project tracking and deployed onto a container infrastructure using Jenkins for CI/CD.

Previously completed a **15-week training course** covering various aspects of infrastructure and development. Concluded this training with a four week project deploying a load-balanced Redis data store behind a Flask API on a container infrastructure.

Summer Analyst — **June 2018 - August 2018**

Morgan Stanley

Involved: Bash, BitBucket, Git, Jenkins, Jira, Python, RHEL, Sybase ASE, Treadmill

Developed a Python script to build and run instances of Sybase ASE database servers. The script ran either locally or, using the Treadmill API, on cloud-based containers. A range of configuration options were implemented and appropriately validated. Developed skills in Python, knowledge of containerisation theory, and experience of a long term project for clients.

Senior Summer Camp Leader — **Summer 2015 - 2019**

Noam Masorti Youth

Volunteered as a leader on a summer camp for a group of ~70 children. Involved supervising throughout the day, planning programmes, leading activities, and dealing with any problems. Gained skills in leadership, co-operation, welfare and discipline. Also held a more senior role involving directing other leaders and providing specialised, focused welfare support.

EDUCATION

The University of Warwick — **September 2016 - July 2019**

BEng Computer Systems Engineering (2:1)

The Latymer School, Edmonton, London — **September 2009 - July 2016**

4 A Levels (3A, 1B), 11 GCSEs (1A*, 8A, 2B)

PROJECTS

IT Officer, Warwick Student Cinema — **February 2017 - March 2019**

Involved: Active Directory, CSS, Debian, Docker, Firewalls, FreeNAS, Git, GitHub, HTML, Hyper-V, Jenkins, MySQL, Network Switches, Linux, pfSense, PHP, PostgreSQL, Servers, SQL, Ubuntu, Veeam Backup and Replication, Windows, Windows Server, Windows Deployment Services

While serving as Warwick Student Cinema's IT Officer, made significant contributions to infrastructure and codebase, as well as providing user support. This included managing physical servers, virtual machines, containers, an active directory for over 50 users, firewalls, an internal network with VLANs and Wi-Fi, a network attached storage (NAS), databases, an electronic point-of-sale (EPOS) system, a large PHP-based website, and more.

Personal Hosted Infrastructure — **April 2019 - Present**

Involved: AWS, Bookstack, Bulma, CSS, DNS, Docker, Docker Compose, Flask, Gandi, Git, GitHub, HTML, Hypercorn, LetsEncrypt, Matomo, MariaDB, Mediawiki, Nextcloud, Nginx, PHPMyAdmin, Python, Quart, SQLAlchemy, Wiki.js

Designs and maintains a set of web apps, databases, custom scripts, and APIs hosted in the cloud. All components deployed on Docker containers orchestrated with Docker-Compose, including an Nginx reverse proxy configured for automated SSL certificates with LetsEncrypt. Docker secrets used to protect sensitive data. DNS and email are managed for multiple domains, and analytics are controlled through Matomo. Examples of services can be seen at *maxlevine.co.uk.*

Final Year Project — **October 2018 - May 2019**

Involved: BibTex, FPGA, Git, GitHub, LaTeX, Mininet, Network Switches, Python, Travis CI, Ubuntu

Modelling Smart Field-Programmable Gate Array Switches in the Network.

Created an open-source Python application for modelling network topologies containing FPGA-based smart switches. Both the project report and code are publicly available at *maxlevine.co.uk*.