

# MICHAEL BENNETT

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## PERSONAL DETAILS

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## SUMMARY

DevOps Engineer with 7+ years of experience delivering robust automation solutions and driving system reliability. Key figure of complex projects, such as using Python to introduce mTLS certification across server infrastructure and transitioning package building pipelines to GitLab CI. Proven track record in automating server error handling with StackStorm and leading performance testing frameworks. Targeting leveraging extensive experience to enhance system efficiency and accelerate development cycles, or scale up backend services.

## SKILLS

### Hard Skills

Primary: Python, CI/CD, YAML, StackStorm, Linux, Cloud Computing, Ansible.

Secondary: Containerisation, Virtualisation, Jenkins, Bash, Prometheus, Grafana, SaltStack, Rundeck, C++, Go, Atlassian Cloud

### Soft Skills

Problem solver, happy to take and deliver constructive criticism, strong communication skills both verbally and in writing, self-motivated, task-oriented.

Automate everything perspective, experienced with Agile, experienced in solo and large team projects.

## WORK EXPERIENCE

### DevOps Engineer

September 2021 – Present

IONOS SE

- Began with tasks focused on analysing operating system issues to identify and resolve server instability, enhancing system reliability.
- Shifted to automation tasks, leading the introduction of mTLS certification across server infrastructure, through self-developed Python-based certificate lifecycle management software. This software ensures the secure maintenance and replacement of 1000s of production servers daily.
- This tool was a key aspect of the overall project to secure IT-Grundschutz certificate from the German government.
- Overhauled package building pipelines by transitioning from Jenkins to GitLab CI, rewriting testing, linting and building steps to improve performance and visibility.
- Led the implementation of StackStorm to automate server error response, handling dozens of alerts daily, reducing support staff alerts, and enabling platform growth.
- Acted as the primary contact for GitLab CI inquiries, providing expert advice and improving pipeline efficiency for multiple teams.

## Software Engineer

March 2020 – July 2021

Hewlett Packard Enterprise

- Led a 6-month project to develop a testing automation framework integrating Jenkins, MySQL, and Grafana with in-house tools, streamlining performance testing and enhancing GUI-based management and analysis.
- The framework orchestrated complex configurations and synchronized data collection, efficiently gathering key analysis metrics like raw performance as well as bottlenecks across multiple transport layers.
- Transitioned to a full software engineering team to work on HPE Nimble software, delivering test-driven features and bug fixes regularly.
- Took on additional responsibilities, including mentoring interns, serving as a STEM Ambassador, and presenting new technologies to share knowledge and experience across teams.

## Systems Engineer

Jul 2017 – March 2020

Hewlett Packard Enterprise

- Managed and maintained HPE servers and storage, ensuring optimal performance and reliability.
- Developed proficiency in Bash scripting and Unix system administration, enhancing automation capabilities.
- Fostered a collaborative atmosphere by building mutually beneficial work relationships, enhancing team productivity.
- Automated log synchronization and other tasks through advanced scripting, improving efficiency.
- Created a Python program for data mining and pattern analysis, discovering root causes of several long-standing OS issues, significantly improving system stability and earning Intern of the Year award.
- Established a reputation for reliability and helpfulness, becoming a key asset to various teams.

## EDUCATION

### Computer Science Bsc

Sep 2015 – July 2019

Loughborough University

- Upper Second Class Honours (2:1).
- Learned and gained an appreciation for a wide range of computer science skills.
- Experienced many modern applications for computer science such as artificial intelligence, or computer vision.

### A-level Education

Sep 2014 – May 2015

MPW

Achieved ABB, in Mathematics, Economics and English respectively.

## ACHIEVEMENT

**HPE's Top Talent Intern Programme Winner:** Recognized as one of the top 22 interns at HPE, and the only Computing Intern awarded. This recognition was based on outstanding contributions, including developing a Python program for data mining and pattern analysis, which identified the root causes of several long-standing OS issues.

**ITIL® Foundation Certificate in IT Service Management (Version 4):** Completed on 04/04/2022 the ITIL Foundation Certificate exam

## INTERESTS

**Servers and Virtualization:** Manage a home server running Proxmox as a bare-metal hypervisor, hosting VMs for home media management, (formerly) cryptocurrency mining, DNS-based ad-blocking, and persistent game servers. Host a Grafana dashboard for server monitoring, with Telegram-based alert notification.

**Technology Enthusiast:** Passionate about exploring new technologies and improving home automation.

**Personal Interests:** Enjoy socialising with friends, playing video games, reading, cycling, and traveling.

## LANGUAGES

English

German