

# Matthew Barnes

## Contact

### Website:

<https://matt-barnes.co.uk>

### Gitea (self-hosted Git server):

<https://git.matt-barnes.co.uk>

## Skills & Abilities

- **Front-end dev** ([HTML](#), [\(S\)CSS](#), [JavaScript](#), [TypeScript](#), [Vue.js](#), [React.js](#), [Svelte](#))
- **Back-end dev** ([PostgreSQL](#), [MySQL](#), [PHP](#), [Symfony](#), [ASP.NET](#), [Node.js](#), [Django](#))
- **Mobile dev** ([Android SDK](#), [NativeScript](#))
- **Video game dev** ([Unity](#), [LibGDX](#), [SDL](#), [HLSL](#))
- **Embedded dev** ([FreeRTOS](#), [Zephyr RTOS](#))
- **General programming** ([C#](#), [C++](#), [C](#), [Java](#), [Python](#), [Go](#), [Rust](#), etc.)
- **Version control** ([Git](#), [GitHub](#))
- **Cloud-based services** ([Heroku](#), [Azure](#), [Linode](#))
- **Continuous Integration / Deployment** ([Drone CI](#), [Jenkins](#))
- **Linux**, both server and desktop ([Debian](#), [Ubuntu](#), [RHEL](#), [Arch](#))

## Experience

### **XenServer, Software Engineer**

January 2024 – Present

- Contribute to the open-source [Xen](#) hypervisor project

### **AMD, Software Engineer**

February 2022 – December 2023

- Wrote firmware for high-speed smart network cards in C
- Implemented open [PMCI](#) standards for side-band management, such as [MCTP](#), [PLDM](#), and [NC-SI](#)
- Managed Linux NFS software and Jenkins CI

### **Gearset, Software Engineer**

July 2020 – September 2020 (Internship)

September 2021 – November 2021 (Employment)

- Worked on the Gearset app, including Salesforce backups and data / metadata deployments, in C# and JavaScript
- Pushed deployments through Continuous Delivery using Kubernetes and internal tooling

## Education

### **University of Southampton**

2017 – 2021

Software Engineering, Master of Engineering (Meng)

Achieving overall 1<sup>st</sup>

- Includes [Algorithmics](#), [Advanced Software Modelling and Design](#), and [Cloud Application Development](#)
- [Third Year Project](#): [Animation, Visualisation, and Computation of Large Automata](#)
- [Fourth Year Project](#): [What's On Your Mind \(WORM\) Communication Webpage](#)

### **Bournemouth School**

2015 – 2017

A Levels:

- A\* Computer Science
- A\* Maths
- A Further Maths
- B Physics

### **Cheam High School**

2010 – 2015

Eleven GCSEs, A\* - B including Computer Science (A), Maths (A\*), and Further Maths (A\* with distinction)