

Sandra Maksimovic

<https://github.com/sanmaksim>

Summary

Software Developer with a strong foundation in system administration and infrastructure, pivoting into front-end and full-stack development. Skilled in building responsive, scalable web applications using React, TypeScript, and ASP.NET, with a proven background in performance optimisation, accessibility, automation, and cross-disciplinary collaboration. Passionate about open source software, problem solving, and creating user-focused solutions. Experienced in working with distributed teams and modern development workflows.

Technical Skills

Cloud & Platforms: AWS, Azure, Office 365, VMware

Programming: JavaScript, TypeScript, React, HTML, CSS, Python C#, .NET, ASP.NET Core, REST APIs

Scripting: Bash, PowerShell, Batch, Python, Perl, VBScript

Tools & Automation: Git, GitHub, GitLab, Postman, Jenkins, CI/CD, Ansible, Docker

Databases: MariaDB/MySQL, PostgreSQL, MS SQL

Web Servers: Nginx, Apache, Microsoft IIS, Tomcat

Infrastructure: Linux & Windows server administration, HPC, containers, storage, networking, DNS, AD/Entra ID

Soft Skills: End-user training, documentation, cross-team collaboration, knowledge-sharing

Languages: Fluent in English and Serbian

Relevant Projects

May 2024 – Present

Gameplays

Full-stack web application to manage and track video games.

- Built with TypeScript + React (front-end), ASP.NET Core API (C#) (back-end) and MySQL (database).
- Designed responsive UI for multiple devices; implemented API integration for real-time data sync.
- Focus on web performance, security principles, authentication/authorisation, and data accuracy.
- Deployment to AWS using containerised environments and CI/CD workflows.

Guavanoid

Browser-based block-breaker game.

- Developed using vanilla JavaScript, HTML5 Canvas, and CSS, demonstrating interactive physics and DOM manipulation.
- Showcased experience in game play programming, UI responsiveness, and performance optimisation.

Professional Experience

Murdoch Children's Research Institute

Senior Systems Administrator

Nov 2014 – Feb 2024

- Configured, maintained, and optimised scalable Linux and Windows infrastructure supporting 2500+ staff, ensuring high availability and secure service delivery.
- Led deployment and evolution of the High Performance Computing (HPC) cluster, enabling critical research with resilient, future-ready compute resources.
- Automated server deployment, patching, backups, and restoration via Ansible, PowerShell, and Bash—reducing downtime and enhancing business continuity.
- Deployed and supported digital research platforms and web applications; implemented system changes to improve data accuracy, integrity, and compliance.
- Monitored data flows, proactively identified and resolved technical issues, and safeguarded sensitive research data in line with data privacy frameworks.
- Produced comprehensive documentation, contributed to knowledge-sharing, and provided hands-on guidance to foster digital literacy across multidisciplinary teams.

Service Desk Technical Officer

May 2012 – Oct 2014

- Delivered rapid front-line technical support, resolving user incidents and minimising disruption for research staff.
- Managed the institute's diverse fleet of Windows, Mac and Linux desktops.
- Utilised SCCM for efficient deployment and configuration of Windows endpoints.
- Automated operational and administrative tasks, increasing accuracy and efficiency through VBScript, PowerShell and Batch scripting.
- Assisted with organisation-wide hardware, software, and system roll-outs, ensuring continuity and robust support.

Sunbury College

IT Technician

Jan 2012 – April 2012

- Maintained and supported classroom and back-end IT infrastructure, troubleshooting and resolving technical issues with minimal disruption to teaching activities.

Blue Tongue Entertainment

Level Designer

Jan 2009 – Aug 2011

- Designed and shipped multiple levels for 'de Blob 2', collaborating with interdisciplinary teams and responding to feedback during iterative development.
- Conducted extensive play-testing and bug-fixing to enhance game quality, mentoring new starters along the way.

Quality Assurance / Level Design Intern

Jan 2008 – Dec 2008

- Performed QA for game development, logging bugs and providing actionable reports to the technical team.
- Assisted with play-testing and minor bug-fixing to enhance game quality.
- Designed a prototype level from a brief using the in-house development tools.

Education

Swinburne University of Technology

2005 – 2008

Bachelor of Science (Computer Science and Software Engineering) / Bachelor of Multimedia (Games and Interactivity)

References

Available upon request.