

Aaron Cruces Cáceres

Senior Cloud, DevOps, Linux SysAdmin, and Full Stack Developer

Professional Work Experience

July 2023 – Present **Senior Cloud Infrastructure and DevOps Engineer**, *Centro Educación Industrial y Minero, CEIM*,
On-site, Antofagasta,
Technologies: Microsoft Azure, Debian Linux, Docker, Samba, GitLab, Ansible, Nginx.

- Deployed App Services and virtual machines on Microsoft Azure and local Proxmox servers.
- Managed Windows Server 2022 with nested virtualization, alongside Alma Linux and Debian.
- Configured Docker platforms using Portainer, Nginx, IIS, and *standalone* services.
- Developed a storage system with hard drives for developer-shared folders, leveraging ZFS, TrueNAS, Samba, and Proxmox virtualization (PCI Passthrough).
- Implemented Bitwarden (Vaultwarden) for centralized management of critical credentials.
- Automated deployments with Ansible and Bash scripts, versioned via Git.
- Set up continuous integration pipelines with GitLab Runners for automated Docker container deployments using Ansible.

March – June 2023 **Computer Science Instructor**, *Instituto Profesional IPG*,
On-site,
Technologies: Microsoft Office.
○ Delivered practical training in Microsoft Office for students across diverse academic programs.

March – June 2023 **IT Engineer and Technician**, *Instituto Profesional IPG*,
On-site,
Technologies: Microsoft Excel, Samba, FreeBSD, Linux (Arch, Debian).
○ Implemented enterprise solutions for the student admissions office, including shared folders and backups on a FreeBSD server with Samba and ZFS (mirror).
○ Developed data manipulation solutions in Microsoft Excel using TypeScript (verify if VBA or another technology is intended).
○ Analyzed and optimized network architecture at Julia Herrera Varas collaborating school.

- June 2022 – **React Web Developer and Linux Services Engineer**, *Tecnojosue*,
 March 2023 Remote, Concepción,
 Technologies: ReactJS, TypeScript, Prisma ORM, ExpressJS, Linux (Arch, Debian), Bash, BAT, Samba, Cloudflare DynDNS, Portainer-Docker.
 ○ Built a web application for inventory management using ReactJS and TypeScript.
 ○ Deployed *self-hosted* applications on Linux servers with *cron-jobs*, *daemons*, and Docker.
- September – **Full Stack PHP Developer**, *Te Para Tres*,
 October 2021 Remote, Santiago,
 Technologies: PHP, VSCode, Git, XDebug, Laravel, FacturaScripts, Trello.
 ○ Maintained and analyzed *legacy* Laravel systems.
 ○ Integrated and developed new and existing systems in the FacturaScripts plugin using PHP.
- May – August 2021 **Freelance Full Stack MERN Developer**, *TeslaDelta*,
 Remote, Concepción,
 Technologies: TypeScript, ReactJS, ReduxJS, Webpack, NodeJS, ExpressJS, MongoDB, Bootstrap, Sass, Figma, SSH, Ngrok.
 ○ Developed a web application for inventory management with barcode and QR code functionality.
- September – **IT Engineer**, *Moldava; Intergrade*,
 December 2020 Lo Barnechea Municipality,
 Technologies: Excel VBA, Aida64, Samba, Acronis True Image.
 ○ Automated *scraping* and *parsing* of Aida64 reports using Excel VBA.
 ○ Managed operating system migrations, software, and hardware administration.
- February – April 2020 **IT Engineer**, *Intergrade; Just Services*,
 Budget Directorate, Ministry of Finance,
 Technologies: VBScript, Samba, Acronis True Image.
 ○ Automated operating system migration processes using VBScript.
 ○ Administered software and hardware installations.
- October – **IT Support Technician**, *Advanced Computing Technologies*,
 November 2019 Hospital de Urgencia y Asistencia Pública, Santiago,
 Technologies: None specified.
 ○ Provided IT support, coordinating between medical and technical staff.
- August – **Linux Systems Engineer and IT Technician**, *La Casa Del Notebook*,
 October 2019 Santiago Centro,
 Technologies: Clonezilla, Linux, MercadoLibre, Windows, Excel.
 ○ Administered and installed Linux systems, maintained hardware, and managed inventory.
 ○ Performed maintenance, repair, and sales of computer equipment.

- March 2017 – **IT Services Engineer**, *Ecacom S.P.A.*,
November 2018 Molycop; Terquim,
Technologies: OpenWRT, Microsoft Office, Windows.
○ Provided support services, including client relations, equipment management, and OpenWRT network configuration.
- July – November 2016 **Full Stack MEAN Developer**, *Escuela Netland School*,
Antofagasta,
Technologies: JetBrains WebStorm, AngularJS, Bootstrap, HTML, CSS, JavaScript, NodeJS, ExpressJS, MongoDB, Yarn, Gulp, Yeoman, Trello.
○ Developed a web application and Android mobile app to connect students and teachers, collaborating in a three-engineer team.
- March – June 2016 **Frontend PHP Developer**, *Escuela Netland School*,
Antofagasta,
Technologies: JetBrains PhpStorm, PHP, WordPress, cPanel, HTML, CSS, JavaScript.
○ Built a web application for managing physical education activities using WordPress as a CMS.
- January – March 2016 **Java Developer**, *SEREMI de Educación, Región del Biobío*,
Concepción,
Technologies: Java, Eclipse, Swing, Apache POI, Excel.
○ Created a form application to automate per diem calculations and dispatching.

Personal Projects Experience

Self-hosted Homelab, *Personal website hosting and publishing system*,

Technologies: Debian, Proxmox, SSH, Docker, Portainer, Authentik, ZFS, ZSH, Bash, MariaDB, PostgreSQL,

- Built hard drive arrays with HBA SAS controllers and ZFS for *backups* and *self-hosted* services.
- Deployed Bitwarden for centralized password management.
- Configured web services with Portainer, secured with Authentik, and published via Traefik.
- Managed version control using Gitea.
- Set up a multimedia server with Jellyfin and Nvidia Container Runtime.
- Administered container databases using Docker Networks, PostgreSQL, and MariaDB.
- Shared documents and photos via NextCloud and Samba, with deduplication using *rfind*, *rsync*, and *scripting* in Bash.
- Automated deployments with Ansible, GNU Stow, *rsync*, and *scripting* in Bash.

Linux Music Setup, *MIDI synthesizer for musicians*,

Technologies: Linux, SSH, TMUX, MIDI, Jack Audio Connection Kit, KXStudio Cadence, VST/VSTi Linux Plugins,

- Configured a Linux environment for music synthesis with minimal requirements and no user configuration required.

Windows Music Setup, *MIDI controller setup*,

Technologies: FL Studio, ASIO4All, MJOY, MidiYokeNT,

- Configured a Windows environment to control MIDI setups using video game controllers.

3D Printed Lithophanes, *Birthday gift*,

Technologies: Autodesk Fusion 360, GIMP, LuBan3D Lithophane Creator, Autodesk MeshMixer, PrusaSlicer, Prusa MK2s,

- Designed lithophanes for a lamp with family photos using Fusion 360 for parametric design and a toolchain (GIMP, LuBan, MeshMixer) for image processing, printed with a Prusa MK2s 3D printer.

Academic Background

2009–2017 **Civil Engineering in Computer Science and Informatics**, *Universidad Católica del Norte*,
Antofagasta, Chile,
Bachelor's Degree in Computer Engineering.

Skills

Languages and Frameworks

- Bash
- ExpressJS
- JavaScript
- NodeJS
- PHP
- Python
- ReactJS
- SQL
- TypeScript
- ZSH

Technologies

- Ansible
- Docker
- Git
- GitLab
- Linux (Debian)
- Microsoft Azure
- Nginx
- Proxmox
- Samba
- ZFS

English Language Proficiency

Writing	B2	<i>Fluent writing</i>
Reading	C1	<i>Fluent reading</i>
Speaking	B2	<i>Conversational fluency</i>
Listening	C1	<i>Full comprehension of videos, podcasts, and native-speaker conferences</i>