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.

- Deployment of App Services and virtual machines using Microsoft Azure and local servers with Proxmox.
- Management of Windows Server 2022 with nested virtualization, Alma Linux, and Debian operating systems.
- Configuration of Docker platforms with Portainer, Nginx, IIS, and *standalone* services.
- Creation of a storage system with hard drives as a shared folder for developers, using ZFS, TrueNAS, Samba, and virtualization with Proxmox (PCI Passthrough).
- Implementation of a centralized password manager Bitwarden (Vaultwarden) for managing critical information.
- Automation of deployments with Ansible and Bash scripts, versioned with Git.
- Configuration of continuous integration systems using GitLab Runners, with automated Docker container deployments via Ansible.

March – June 2023

Computer Science Instructor, *Instituto Profesional IPG*,
On-site,
Technologies: Microsoft Office.

- Practical training in the use of Microsoft Office for students across various academic programs.

March – June 2023

Computer Engineer and IT Technician, *Instituto Profesional IPG*,
On-site,
Technologies: Microsoft Excel, Samba, FreeBSD, Linux (Arch, Debian).

- Implementation of enterprise solutions in the student admissions office, including shared folders and backups using a FreeBSD server with Samba and ZFS (mirror).
- Development of solutions for data manipulation in Microsoft Excel using TypeScript.
- Analysis and optimization of network architecture at the collaborating school Julia Herrera Varas.

June 2022 – March 2023	**React Web Developer and Linux Services Engineer**, *Tecnojosue*, Remote, Concepción, Technologies: ReactJS, TypeScript, Prisma ORM, ExpressJS, Linux (Arch, Debian), Bash, BAT, Samba, Cloudflare DynDNS, Portainer-Docker. ○ Development of a web application for inventory management using ReactJS and TypeScript. ○ Implementation of *self-hosted* applications on Linux servers using *cron-jobs*, *daemons*, and Docker.
September – October 2021	**Full Stack PHP Developer**, *Te Para Tres*, Remote, Santiago, Technologies: PHP, VSCode, Git, XDebug, Laravel, FacturaScripts, Trello. ○ Maintenance and analysis of *legacy* systems developed with Laravel. ○ Integration and development of 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. ○ Creation of a web platform for entering, modifying, and updating inventory products with barcodes and QR codes.
September – December 2020	**Computer Engineer**, *Moldava; Intergrade*, Lo Barnechea Municipality, Technologies: Excel VBA, Aida64, Samba, Acronis True Image. ○ Automation of *scraping* and *parsing* of Aida64 reports using Excel VBA. ○ Migration of operating systems, installation, and administration of software and hardware.
February – April 2020	**Computer Engineer**, *Intergrade; Just Services*, Budget Directorate, Ministry of Finance, Technologies: VBScript, Samba, Acronis True Image. ○ Automation of operating system migration processes using VBScript. ○ Installation and administration of software and hardware.
October – November 2019	**IT Support Technician**, *Advanced Computing Technologies*, Hospital de Urgencia y Asistencia Pública, Santiago, Technologies: None specified. ○ Provision of IT support services, coordinating between medical and technical staff.
August – October 2019	**Linux Systems Engineer and IT Technician**, *La Casa Del Notebook*, Santiago Centro, Technologies: Clonezilla, Linux, MercadoLibre, Windows, Excel. ○ Administration and installation of Linux systems, hardware maintenance, and inventory control. ○ Maintenance, repair, and sale of computer equipment.

March 2017 – November 2018	**IT Services Engineer**, *Ecacom S.P.A.*, Molycop; Terquim, Technologies: OpenWRT, Microsoft Office, Windows.
	○ Provision of support services, including client relations, equipment administration, and network configuration with OpenWRT.
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.
	○ Development of a web platform and Android mobile application to connect students and teachers, in a team of three engineers.
March – June 2016	**Frontend PHP Developer**, *Escuela Netland School*, Antofagasta, Technologies: JetBrains PhpStorm, PHP, WordPress, cPanel, HTML, CSS, JavaScript.
	○ Creation of a web platform for communicating 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.
	○ Development of a form application for calculating, automating, and dispatching per diem allowances.

Personal Projects Experience

Self-hosted Homelab, *System for hosting and publishing personal websites*,
Technologies: Debian, Proxmox, SSH, Docker, Portainer, Authentik, ZFS, ZSH,
Bash, MariaDB, PostgreSQL,

- Creation of hard drive arrays with HBA SAS controllers and ZFS for *backups* and *self-hosted* services.
- Deployment of a Bitwarden password manager for centralized key management.
- Configuration of web services with Portainer, protected with Authentik and published with Traefik.
- Version control management using Gitea.
- Deployment of a multimedia server with Jellyfin and Nvidia Container Runtime.
- Management of container databases with Docker Networks, PostgreSQL, and MariaDB.
- Provision of documents and photos via NextCloud and Samba, with deduplication using *rdfind*, *rsync*, and *scripting* in Bash.
- Automation of 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,

- Configuration of a Linux environment for music synthesis with minimal requirements and zero user configuration.

Windows Music Setup, *MIDI controller setup*,
Technologies: FL Studio, ASIO4All, MJOY, MidiYokeNT,

- Configuration of a Windows environment to control a MIDI setup with video game controllers.

3D Printed Lithophanes, *Birthday gift*,
Technologies: Autodesk Fusion 360, GIMP, LuBan3D Lithophane Creator,
Autodesk MeshMixer, PrusaSlicer, Prusa MK2s,

- Creation of lithophanes for a lamp with family photos, using Fusion 360 for parametric design and a tool chain (GIMP, LuBan, MeshMixer) for image transformation, manufactured 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 Engineering Sciences.

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	*Fluent writing*
Reading	C1	*Fluent reading*
Speaking	B2	*Normal-paced conversation*
Listening	C1	*Comprehension of videos, podcasts, and native audio conferences*