

Aurélio Carlos Prado Silva

SOFTWARE DEVELOPER · INFRASTRUCTURE AND NETWORK ADMIN · DEVOPS

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Summary

Master in Computer Science with emphasis on database, data streams, microservices and event-driven programming, specialist in Computer Networks. More than 15 years of career with experience both in systems development and in network infrastructure and administration of servers and systems. Easy adaptation to new technologies, languages, frameworks and methodologies. Flexibility when working in different IT areas, always using knowledge from previous experiences.

Education

M.S. degree in Computer Science

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UNESP - UNIVERSIDADE ESTADUAL PAULISTA

2021

- SQLStreamify: middleware based on microservices architecture providing real-time data stream reading transactions in legacy DBMSs
- Emphasis on database, data streams, microservices-based architecture, containers, microservices, and event-driven programming
- Advisor: Dr. Ronaldo Celso Messias Correa

Postgraduate - Specialist in Computer Networks

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ESAB - ESCOLA SUPERIOR ABERTA DO BRASIL

2016

- Focus on theoretical and practical foundations of computer networks.

Bachelor of Science, Computer Science

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UNESP - UNIVERSIDADE ESTADUAL PAULISTA

2012

- Conclusion paper: Study on the implementation and operation of IPv6 and Mobile IPv6 protocols in the FCT/UNESP network
- Advisor: Dr. Milton Hirokazo Shimabukuro

Computer Technician Course

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COLÉGIO BRAGA MELLO

2003

- Course focused on systems development.

Experience

UNESP - Universidade Estadual Paulista

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INFRASTRUCTURE ADMINISTRATOR - SERVERS, NETWORKS AND SYSTEMS

2009 - current

- Several network services administration and deployment (DNS, DHCP, Web Servers - Apache, NGINX, Tomcat, pfSense, IPAM, Zabbix, Nagios...)
- Server virtualization experience (VMware, Xen, KVM) - including the entire infrastructure migration from VMware hypervisor to Xen
- Services and applications containerization experience (Docker, Docker-compose, Portainer) - several services migration from VMs to containers
- Network infrastructure management (switches, routers, access points)
- Equipment and services monitoring (Zabbix, Grafana, Prometheus)
- Python, Shell script, Ansible automation
- Some experience in management, acting as IT Director Substitute.

Colégio Braga Mello

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COMPUTER TECHNICIAN - DEVELOPMENT AND INFRASTRUCTURE MANAGER

2008 - 2009

- Academic, Financial and Payroll Control Systems development.
- Linux and Windows Server servers deployment and administration.
- Databases administration (MySQL, PostgreSQL)

MTTEC - Automação Industrial

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TRAINEE - DEVELOPMENT

2007 - 2008

- Participation in the development team of ERP projects, Commercial Automation, TEF (Electronic Fund Transfer), among others. Primarily using Visual Basic and PostgreSQL databases. ASP.Net, Java and PHP experience.

Global Automação

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TRAINEE - DEVELOPMENT

2003 - 2007

- Working on development project team for Commercial Automation, Gas Station Management System, among others. Working with Visual Basic and MySQL databases.

Agência Brasileira de Correios e Telégrafos

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TRAINEE

2003 - 2003

- Computers and network maintenance. Database implementation for company internal use.

- Network, systems, machines and website maintenance. And Computer Lab supervision.

Extracurricular Projects

cTwittLike (web and iOS App)

[Google AppEngine, Python, Swift,](#)[App Store](#)

FREE TIME PROJECT

2009 - 2014

- Application with the objective of see Twitter like someone else.
- First developed in Python and run on Google AppEngine.
- Covered by Mashable, Engadget, Tecnoblog, among others, causing great traffic in which I had to work on project scale to meet the requests.
- Years later the idea was developed in Swift and made available as an iOS app.

Reminder Widget: for Evernote Reminders (iOS app)

[Objective-C](#)

FREE TIME PROJECT

2015

- iOS Application created to supply the lack of a widget (better than the official one at the time) for Evernote reminders.
- Developed right on the release of iOS widget development.
- Details on AppAdvice.

Ganhei? (iOS app)

[Swift, Node.js, AWS, App Store](#)

FREE TIME PROJECT

2017

- Application to register games and check results of Mega-Sena (brazilian lottery).
- Project developed in Swift with backend in Node.js to send notifications when the result of the draw is released.
- OCR use to recognize numbers played when reading bet ticket for automatic registration.
- Covered by MacMagazine as application suggestion.

Skills

Programming	Python, JAVA, Swift, Visual Basic, C#, ASP.Net, PHP, Javascript, Node.js, Flask, Django, Hugo, LaTeX, HTML, CSS, Bootstrap, Event Driven Programming, Microservices Architecture, Systems Dev. Methodologies
Databases	Relational and NoSQL (MySQL, PostgreSQL, SQLServer, Redis, MongoDB, Firebase)
Message Queuing	Stream Data Processing (RabbitMQ, ActiveMQ, MQTT)
Network Infrastructure	Configuration and Administration of routers, switches, APs, firewalls (Cisco, HP, Aruba, 3com, Dell, pfSense...)
Servers Administration	Linux, FreeBSD e Windows - Python, Shell Script and Ansible automation
Virtualization	VMware, Xen, KVM
Observability	Zabbix, Grafana, Prometheus
Containers	Docker, docker-compose, Swarm, Kubernetes, Portainer
CI/CD	Git, Github Actions, Gitlab
IaC	Ansible, Terraform
Cloud	Amazon (AWS, EC2, S3, Route53)
Languages	Native portuguese, advanced english, basic spanish

Certifications

2021 Gitlab Certified Associate

[Gitlab](#)