

# VICTOR CARVALHO

São José dos Campos, Brazil (GMT -3) ◇ Vancouver, Canada (GMT -7)

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## SUMMARY

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Skilled software engineer with 10 years of experience designing, implementing, and operating services for large-scale systems. Proven track record of leading successful projects, improving scalability and automation, and mentoring peers to drive technical excellence.

## EDUCATION

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<b>Bachelor of Computer Science</b> , University of São Paulo (Brazil)	Jan 2010 – Dec 2014
<b>Exchange Program in Computer Engineering</b> , University of Porto (Portugal)	Sep 2012 – July 2013

## SKILLS

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**Experience:** Large-Scale Systems, Site Reliability Engineering, Software Architecture, CI/CD, On-Demand Computing, Software Security, Agile.

**Programming Languages:** Java, TypeScript, Python, C, Go, Ruby, Kotlin.

**Natural Languages:** English – full professional proficiency; Portuguese – native proficiency.

## EXPERIENCE

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<b>Software Development Engineer II</b>	Feb 2022 – Sep 2024
Amazon Web Services	<i>Vancouver, Canada</i>

- In the Relational Database Service (RDS), worked on infrastructure projects enabling horizontal scaling at the regional level with zero-downtime requirements. Authored design documents for system-wide architecture changes focused on isolation and security.
- infrastructure-as-code and tooling changes to support changes to deployment model and system architecture, impacting dozens of dependent teams.
- Designed and implemented a monitoring system using synthetic test environments to detect feature discrepancies across regions. Delivered real-time dashboards and alerts to support parity across environments and improve reliability.
- Mentored junior engineers, provided technical direction, and reviewed peer designs and implementations.
- Reviewed operational readiness documents and system designs across teams, acting as security focal and liaising with AWS-wide security stakeholders.

<b>Software Development Engineer I</b>	Jun 2019 – Jan 2022
Amazon Web Services	<i>Vancouver, Canada</i>

- Built and maintained internal services for managed database version automation in RDS, including APIs, dashboards, and CI/CD tooling adopted by multiple service teams.
- Owned and delivered end-to-end projects: gathered requirements, authored technical design docs with multiple high-level alternatives, defined milestones, implemented and deployed features, ensured operational readiness, and supported production systems.

**Software Developer**  
Samsung Research Institute

Apr 2017 – Mar 2019  
*Campinas, Brazil*

- Designed and implemented features for the enterprise mobility management (EMM) segment on Android devices.
- Analyzed Android internals and developed Java and C++ policies to extend and control device behavior, enabling 3rd-party EMM solutions to manage Samsung smartphones and tablets via SDK.

**Junior Software Security Engineer**  
Samsung Research Institute

Jan 2015 – Mar 2017  
*Campinas, Brazil*

- Conducted ethical hacking and vulnerability assessments to uncover 0-day exploits and design flaws across Android, IoT, and web services.
- Developed tools and exploits in C, Java, Python, and Shell Script to support vulnerability research. Authored security reports for coordination of product hardening efforts.