

Contact

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www.linkedin.com/in/adam-silva
(LinkedIn)
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Top Skills

Claude Code Subagents
Codelgniter
TypeScript

Languages

Espanhol (Full Professional)
Portuguese (Native or Bilingual)
Inglês (Native or Bilingual)

Certifications

Generative AI and LLMs:
Architecture and Data Preparation
Generative AI Applications with
Amazon Bedrock
Machine Learning with Python
Fundamentals of AI Agents Using
RAG and LangChain
TOEFL iBT

Adam Silva

AI Engineer with 15+ years of experience | LLM Applications, RAG, AI Agents, Python, AWS Bedrock ready to work under CPT work authorization

Washington, District of Columbia, United States

Summary

Ready to work under CPT Work Authorization. AI Engineer with 15+ years of experience, delivered more than 200 projects building LLM-powered applications, Agentic Systems, retrieval-augmented generation (RAG) systems, AI Agents, and intelligent automation tools. My background combines Python development, backend systems, cloud deployment, and applied AI work across education, digital products, and business automation. I've built AI-powered chatbots, automation workflows, and web applications using technologies such as Python, OpenAI APIs, LangChain, AWS, Azure, PHP, JavaScript, and SQL. I also lead technical product execution across cross-functional teams and have helped deliver digital products and training experiences reaching 7,000+ students. I'm especially interested in AI Engineer roles involving LLM applications, AI agents and automation, RAG pipelines, backend systems for AI products, and cloud deployment and integrations.

Experience

Estudar TI

AI Engineer

January 2018 - September 2025 (7 years 9 months)

Sao Paulo, Brazil

- Increased concurrent LLM chat sessions by 2x by optimizing state management and maintaining/enhancing a CRM and chatbot platform built with React, Node.js, and Redis.
- Achieved 99% of uptime deploying AI-powered applications on Amazon AWS Cloud, AWS Bedrock, and Azure Foundry, processing 10M+ tokens with integrated PII protection.
- Automated career roadmaps for 7,000 users implementing AI agents, LLM-powered chatbots, RAG, Models and automation tools using LangChain, HuggingFace, Pytorch and Tensorflow.

- Maintained 50k+ users across production-grade web platforms using Python, JavaScript, Next.js, React, Typescript, Postgres, MySQL, and SQL.
- Reduced experimentation cycles by 40% and accelerated GenAI feature delivery by developing Python utilities and services for data processing and third-party API integration.
- Successfully expanded user base to 7,000+ students through the delivery of high-impact applications and AI training, leading a multidisciplinary team across engineering, design, and sales through the Estudar TI platform.
- Ensured 95% model accuracy across large-scale datasets by engineering and deploying end-to-end machine learning pipelines using scikit-learn, Pandas, and NumPy.
- Reduced inference latency by 30% for high-performance model serving by architecting scalable REST APIs with FastAPI and optimizing NoSQL database schemas.
- Reduced hallucinations by 60% by architecting RAG pipelines and implementing automated evaluation frameworks to optimize Large Language Model (LLM) performance.
- Boosted development speed for a key system from 3 months to 3 weeks by implementing AI-assisted workflows with Claude Code.
- Accelerated AI microservice delivery by 50% while maintaining quality through GitHub Actions CI/CD pipelines and automated evaluation, targeting seamless GKE deployment.

City Council of Santo André

Developer

April 2017 - December 2017 (9 months)

Santo André, SP

- Expanded the councilor's digital visibility to a potential audience of 715,000+ Santo André residents by developing and maintaining the official WordPress website and blog using HTML, CSS, PHP, and JavaScript.
- Improved visibility and tracking across 100% of core website pages by implementing SEO best practices and analytics instrumentation to monitor traffic, user behavior, and content engagement.
- Increased transparency from 20+ plenary sessions and policy discussions by collaborating with communications and policy teams to translate complex legislative topics into clear digital content.
- Enhanced usability across 10+ website sections by building responsive layouts, optimizing front-end structure, and maintaining accessible digital experiences for desktop and mobile users.

Agência 3xceler Ltda - Me

Backend Developer

March 2015 - August 2015 (6 months)

Sao Paulo, Brazil

- Delivered 5+ client-facing WordPress websites and landing pages by building custom themes and backend components aligned with design specifications, usability standards, and SEO best practices.
- Improved development efficiency across 15+ custom page layouts by creating reusable WordPress templates and backend components using PHP, HTML, CSS, and JavaScript.
- Enabled centralized management of 100+ travel packages, destinations, and content records by engineering a custom CMS platform for a travel company using PHP, CodeIgniter, and database-driven architecture.
- Converted 20+ UX wireframes and design layouts into production-ready digital experiences by collaborating with designers and stakeholders throughout the development process.

Freelancer

Web Developer

February 2009 - December 2014 (5 years 11 months)

Santo Andre, Brazil

- ✓ Managed and updated client websites for the company Pennacorp
- ✓ Developed the website for the auto parts distributor Becap
- ✓ Developed websites and systems for small businesses to help solve problems using technology
- ✓ Created and managed WordPress blogs

F5 Themes

Developer and Co-founder

May 2013 - November 2014 (1 year 7 months)

Sao Paulo, Brazil

- ✓ Developed an international product: New-commerce, a WordPress e-commerce theme that ranked among the top 10 best-sellers three times on Mojo Themes Market
- ✓ Developed the website www.f5themes.com, which helped our company provide services to clients both inside and outside Brazil
- ✓ Implemented business strategies that achieved over 500 global sales of our product

- ✓ Managed clients in countries such as Canada, the USA, Taiwan, Italy, India, and Paraguay

Promobit

Web Developer and Co-founder

November 2013 - March 2014 (5 months)

Sao Paulo, Brazil

- ✓ Developed part of the admin system for the website www.promobit.com.br using PHP, HTML, CSS, Bootstrap, jQuery, and GIT, in collaboration with the team
- ✓ Developed the Promobit blog, which has now become an essential part of the startup's marketing strategy

Pennacorp

Intern – IT Technician

September 2008 - February 2009 (6 months)

Sao Paulo, Brazil

- ✓ Developed and managed websites in ASP and PHP
- ✓ Customized and created subroutines in an ERP system
- ✓ Migrated databases from Sybase to MySQL
- ✓ Provided ERP system support to clients

Education

University of the Potomac

Master of Science - MS, Computer Science · (October 2025 - April 2027)

Fatec São Caetano do Sul

Bacharel em Análise de Sistemas e Tecnologia da
Informação, TI · (2009 - 2012)

Instituto Pentágono de Ensino

Técnico em Informática, TI · (2006 - 2008)