

John Felipe Schulz Rodrigues

Software Engineer | DevOps Specialist | Building AI-Integrated Applications & Automated Pipelines
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WORK EXPERIENCE

- Piaggio Fast Forward** (Consumer and B2B Robotics Company) **Boston, MA**
DevOps Engineer (DevOps Co-op and Software Intern pre-July 2023) Jul 2022 – Present
- Provisioned and governed a multi-account AWS environment using Terraform and CloudFormation, prioritizing modular IaC and self-healing configurations to withstand 2x traffic surges in robotics telemetry.
 - Scaled robotic telemetry via AWS AppSync, streamlining OTA update orchestration and real-time data processing for 500+ autonomous units.
 - Implemented robust server-side logic for the Piaggio Group mobile app, maintaining service availability for 50k+ monthly active users and ensuring seamless vehicle-to-cloud connectivity.
 - Safeguarded fleet operations by monitoring backend performance and preemptively neutralizing production bottlenecks to sustain a 99.9% uptime.
 - Authored real-time dashboard features using React and JavaScript for ProTools, enhancing telemetry visualization and remote command execution for the Kilo robot fleet.
 - Overhauled the SumoLogic ingestion layer, refactoring legacy scripts to slash log processing time from 2 hours to under 5 minutes, enabling real-time monitoring and faster incident response for the robotic fleet.
 - Hardened cloud security posture by auditing production accounts and deploying automated Jenkins jobs for systematic access key rotation and security group IP whitelisting.
 - Architected and maintained Jenkins and Ansible pipelines to automate multi-environment deployments (DEV, STG, PRD).
 - Developed custom shell scripts and YAML verification tools that standardized deployment patterns for the Kilo and Gita robots.
 - Strengthened fleet data integrity by engineering automated MongoDB backup scripts and implementing API throttling.
- Charles River Development** (A State Street Company) **Burlington, MA**
End User Engineering Analyst Intern (Information Technology Specialist Co-op pre-January 2021) Jul 2021 – Jul 2022
- Built Python scripts to automate onboarding/offboarding and report generation, eliminating 75% of the manual workload for a 500+ employee organization.
 - Resolved critical end-user incidents via permanent system changes and proactive maintenance cycles.
 - Performed daily system audits to verify the integrity and availability of hardware, server resources, and key processes.
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PROJECTS

- CTO & Co-Founder at Cache Self-Storage** | www.cachestorage.us Feb 2026
- Engineered a Unity-based simulation to validate robotic storage algorithms and physical constraints prior to hardware prototyping.
 - Defined product roadmap and system architecture, leveraging market research to pitch the business model to prospective investors.
 - Developed the company website and brand identity, overseeing the end-to-end launch of the digital platform to drive initial stakeholder interest.
- Founder at Hatch Matchmaking** | www.hatchyouridea.com Jul 2025
- Deployed a cross-platform React Native app facilitating matchmaking between co-founders and early-stage investors.
 - Architected a scalable backend using Supabase (Auth/DB) with automated CI/CD pipelines managed via Railway.
 - Designed the UI/UX in Figma and executed the marketing campaign to acquire the platform's first batch of users.
- CTO & Co-Founder at CloudFab** Apr 2025
- Authored an LLM-CAM pipeline integrated with FreeCAD to automate toolpath generation from natural language prompts.
 - Built core AI agent architecture and web interface to streamline the transition from 3D design to machine-ready code.
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EDUCATION

NORTHEASTERN UNIVERSITY **Boston, MA**
Bachelor of Science in Computer Engineering and Computer Science December 2023
Honors: Ujima Global Leaders Scholarship; Dean's List; National Hispanic Recognition Program Scholar

ADDITIONAL

Technical Skills: **Advanced in** Python, JavaScript, TypeScript, React, AWS (ECS, Lambda, S3, VPC), Terraform, CloudFormation, Docker, Kubernetes, CI/CD (Jenkins, GitHub Actions, Railway), Infrastructure as Code (IaC), Sumo Logic; **Proficient in** React Native, SQL (PostgreSQL, MongoDB), Supabase, Prometheus, Grafana, PyTorch, Unity, LLM Integration
Languages: **Fluent in** Portuguese, English; **Conversational Proficiency in** Spanish.