

Reid Richards



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Full-Stack Engineer • Cloud & Automation Specialist

5 yrs growing GS1 EPCIS supply-chain SaaS. Go and Python driven.

Former QA lead: finds defects fast, writes tests faster.

OBJECTIVE

Experienced Software Developer with deep expertise in Python, Django, JavaScript, and AWS, transitioning from Quality Assurance and Project Engineering roles. Seeking opportunities to leverage my technical skills, extensive product knowledge, and collaborative approach within an innovative team, contributing to high-quality, scalable, and impactful software solutions.

FORMAL EDUCATION

University of Texas - Bachelor of Science in Aerospace Engineering

May 2012

TECHNICAL SKILLS

- **Languages:** Python, Golang, JavaScript, TypeScript, SQL, MATLAB, VBA
- **Frameworks & Tools:** Django, Django REST, RESTful APIs, Celery, Redis, Nginx, Docker, Git, Jenkins, Jira, Confluence, WSL
- **Databases:** MySQL, Redis
- **Testing & Automation:** PyTest, Postman, Selenium, Robot Framework
- **Web/Frontend:** JavaScript, Typescript, Golang Net/HTTP, HTML, CSS,
- **Cloud & Infrastructure:** AWS (EC2, RDS, SQS, S3, Auto Scaling, Parameter Store, Load Balancers), GCP (Google App Engine, Cloud Run, Storage, Pub/Sub, Cloud CDN), Cloudflare
- **Authentication & Directory:** LDAP
- **Standards & Compliance:** EPCIS, GS1, DSCSA, VRS, EMVS, OMS

PROFESSIONAL WORK HISTORY

Systech International – Princeton, NJ

February 2019–Present

Currently working as a Software Developer at Systech International, having progressed from Project Engineer to QA Automation Lead. Over the past 5+ years, I've led high-profile serialization and automation projects, driven quality assurance for enterprise SaaS, and now develop cloud-based software solutions used by pharmaceutical companies around the world.

Software Engineer

February 2024 - Present

Full-stack developer working on Systech's flagship recurring-revenue SaaS product, driving feature implementation and serialization enhancements using Python (Django), JavaScript, MySQL, and comprehensive AWS infrastructure. Leveraging deep product knowledge and QA experience, transitioned quickly to deliver impactful contributions and leadership within development cycles.

- Developed and maintained core features and serialization workflows within the Django-based backend and JavaScript frontend, directly supporting high-profile pharmaceutical clients.

- Led and mentored a team of contractors, coordinating serialization projects and ensuring on-time feature deliveries aligned with product and regulatory standards.
- Re-architected frontend and backend to scale with load on AWS
- Leveraged extensive AWS knowledge to interface with and manage EC2, RDS, SQS, S3, Parameter Store, Load Balancers, and Route53 services, enhancing application scalability and reliability.
- Integrated external APIs from openFDA and NABP to enhance regulatory traceability features, validate product data, and ensure seamless interoperability within the serialized supply chain.
- Achieved consistent productivity, averaging 18 story points per sprint across 30+ agile sprints.
- Collaborated closely with Product Management, QA, and DevOps teams to define technical designs, clarify product requirements, and ensure smooth and compliant product releases.
- Implemented backend job workflows and efficient task management using Celery and Python scripting.
- Provided mentorship, code reviews, and technical guidance to contractors and junior developers, fostering knowledge transfer and ensuring code quality and consistency.
- Utilized previous QA experience to drive rigorous testing practices and proactively address potential software issues early in the development cycle.
- Intimate knowledge with GS1 and EPCIS standards used by Supply Chain Management L4 systems

Senior QA Engineer / QA Automation Lead

July 2020 - February 2024

- Lead QA and Automation Engineer on the company's main recurring revenue SaaS product, ensuring high-quality releases and system reliability.
- Developed and maintained automated test scripts using Robot Framework, Python, and Selenium, reducing manual testing time by over 80%.
- Built Jenkins REST layer reducing config time from days to seconds.
- Collaborated with development teams to identify defects early in the life cycle, improving software reliability and reducing production issues.
- Worked extensively with MySQL, SSH, Docker, and AWS to manage test environments and execute tests in scalable, cloud-hosted systems.
- Championed the implementation of DSCSA regulations, driving QA processes to ensure compliance and product readiness.
- Automated and streamlined QA processes, significantly improving testing efficiency and consistency across releases.
- Mentored and supported team members in adopting best practices in testing and automation, fostering a culture of quality and collaboration.

Project Engineer / Vision Engineer

February 2019 - July 2020

- Led high-profile serialization and automation projects for major pharmaceutical clients including AstraZeneca, Baxter, Johnson & Johnson, and Allergan.
- Delivered and reviewed technical documentation including design specs, drawings, validation reports, and configuration docs.
- Collaborated across internal teams (Engineering, Sales, Finance) and external contractors and clients globally to execute project deliverables.
- Operated independently in Systech's Vision Evaluation Lab to resolve field issues and develop customer-focused solutions.
- Automated internal tasks using Python, Visual Basic, and batch scripts, helping streamline office operations and reduce manual effort.
- Designed and prototyped custom hardware parts using SolidWorks.
- Conducted technical meetings, presented electrical/software designs, and supported risk mitigation through lab testing.
- Gained global travel experience supporting on-site system installations and client training.

Started as a field engineer before being promoted to an application engineer for numerous global car manufacturers. Made the decision to resign for personal reasons that involved me relocating to New Jersey.

- Planned and executed installations with FANUC/Kawasaki robots, cameras, and inos software in the automotive industry.
- Supported customers by streamlining their quality management systems to design efficient, accurate, cost-effective alternatives.
- Responsible for projects from commissioning to completion, both on customer sites and remotely.
- Thrived while discerning priorities, managing unexpected and time-sensitive developments in the field, and ensuring that projects finished on time and on budget.

Caterpillar, Inc. Seguin Engine Plant, *Robotic Controls*, Seguin, TX

April 2013 – April 2014

Responsible for operating, troubleshooting, programming, and analyzing various robotic systems, as well as training others in their use.

- Analyzed Programmable Logic Controllers (PLCs) to troubleshoot robots.
- Troubleshooting FANUC robots through servos, sensors, HMIs, PLCs, and FANUC Teach Pendant.
- Used FANUC Teach Pendant extensively for manual robot control, addressing faults, and teaching touch up positions.
- Worked with GCI Torque Arms: initial setup, programming, calibration, and troubleshooting.

United States Geological Survey, *Hydrological Technician*, Austin, Texas

June 2009 – August 2011

Collected data on the quality, quantity, availability, and movement of water in Central Texas, while developing system-based innovations that supported data collection and improved the Geological Survey's functionality and efficiency.

- Collected data on the quality, quantity, availability, and movement of water in Central Texas.
- On my own initiative, I wrote a computer program which improved the functionality of the USGS database.
- Designed and machined gages for use in bodies of water, including configuring solar-powered electrical systems.
- Presented findings, departmental needs, and accomplishments at weekly meetings.
- Leader of an archiving project resulting in a restructuring of USGS public records.

PROJECTS

mrreidrichards.com - Go + Google App Engine

epcisbarcodes.com - Go backend, generates GS1 barcodes; growing to GS1 utility site

Rent vs Buy - Python + Streamlit, homeowner utility for weighing options

Jenkins APIs - Python + XML, config files to batch POST edits and build statistical reports

PERSONAL SKILLS

- Adept with engineering drawings and principles
- SolidWorks and AutoCAD (3D Modeling)
- LabVIEW, Multisim
- Proven time management skills
- Knowledge of manufacturing processes and associated costs
- Logical approach to problem solving and projects
- InDesign, Photoshop, Word Perfect, Lotus Notes
- Licensed SCUBA Diver
- Machine Shop Proficiency, TIG Welding Experience
- Strong leadership and teamwork abilities

ADDITIONAL ACCREDITATION

Eagle Scout, *Troop 406*, Lubbock, Texas

March 2007

EXTRACURRICULAR ACTIVITIES

Books are the Beginning, *Non-Profit Volunteer, Board Member*

- Organization to provide books and professional teachers to impoverished areas of the world
- Help locate, categorize, and deliver books to schools in Texas and Uganda
- 3D model the packing of shipping containers bound for Africa to ensure maximum efficiency

3D Modeling and Printing, *Homemade Printer*

- Constructed printer using RAMPS 1.4, Arduino MEGA 2560, and DC stepper motors
- Enjoy the concept of bringing design objects to life

FIRST Robotics, Michigan

- Assisted in the design of robotic layouts using SolidWorks
- Trained high school students in basic usage of SolidWorks