

Isaac Phillips

Software Engineer

[in taikun](#) [theTaikun](#)

<https://iaphillips.com>

Summary

Software engineer with deep automation and systems experience, proven in regulated industries. Strong in CI/CD, testing, safety, and security. Ready to contribute immediately to architect, automation, or developer-adjacent roles.

Experience

Inpeco North America

August 2021 - June 2024

Field Service Software Applications Engineer

Tampa, FL, USA

- Consulted with customers as a pre-sales engineer to analyze existing workflows and translate requirements engineering challenges into solution requirements which adhered to HIPAA regulations.
- Designed software architecture and developed ad-hoc Linux and cross-platform software solutions which customized commercial off-the-shelf software products to meet customer desires, increasing customer satisfaction and resulting in repeat sales.
- Performed in-person installation of operating systems, network infrastructure, and scalable software applications, followed by end to end system integration testing to ensure full system reliability.
- Designed and implemented automated backup plans to protect critical data, ensuring customer compliance with regulatory mandates for medical technologies.
- As a post-sales engineer, maintained production software systems through in-person and remote configuration changes, dependency upgrades, and documentation revisions.
- Conducted in-depth troubleshooting of software applications, configurations, and network issues, leveraging root cause analysis techniques to identify and rectify issues promptly.
- Provided on-site training to personnel, enhancing end-user proficiency and reducing support tickets by 15%.

Advantest Test Solutions

September 2016 - June 2019

Field Support Engineer

Irvine, CA, USA

Formerly Astronics Test Systems, Semiconductor Division

- Product specialist and first-level support for resolving software defects, resulting in 20% reduction in equipment downtime.
- Developed embedded firmware and hardware prototypes, serving as drop-in replacements for legacy hardware components. Ensured electrical, timing, and functional compatibility, with existing systems through system integration testing.
- Designed and implemented custom embedded test benches and automation tools to evaluate component reliability and performance, including failure rates, operating current consumption, and voltage behavior under real-world conditions.

United States Navy

August 2010 - August 2016

Nuclear Electrician's Mate Petty Officer First Class (E-6/EMN-1)

SSN-761, CVN-71

- Developed first of its kind software system to track ship's emergency battery status, eliminating need for paper logs. This enabled efficient search, statistical analysis, report generation, and permanent archive.
- Led software-driven and cost-effective procedures, optimizing the submarine's battery lifespan and reducing operational costs, within nuclear safety regulations, and maintaining military quality requirements.

Education

Thomas Edison State University

IT/Software Engineering

January 2025 - March 2026

Master of Science

Relevant coursework:

- Cloud Computing and Distributed Systems
- Software Architecture
- Agile Development Methodology
- Requirements Engineering
- Project Management

Rensselaer Polytechnic Institute

Computer Engineering

July 2019 - December 2021

Graduate Coursework

Relevant Coursework:

- Artificial Intelligence
- IoT/Embedded Development

Thomas Edison State University

Nuclear Energy Engineering Technology

January 2017 - January 2019

Bachelor of Science

Naval Nuclear Propulsion Program

Nuclear Engineering

October 2010 - June 2012

Military Training

Skills

Programming Languages

Python, C++, C, Java, PHP, SQL, JavaScript/TypeScript, Bash

Technologies

Docker, AWS, RESTful API, PostgreSQL, MongoDB, MySQL/MariaDB, Flask, Node.js, React, Git, Subversion, CI/CD

Projects

GlossCREATIONS

Web Design Agency - Founder

<https://glosscreations.com>

September 2023 - Present

Umbrella organization for various software development projects. Specializes in client projects such as the creation of static websites, CMS systems, and custom solutions. Also develops SaaS web apps for the open market. Focuses on rapid prototyping and agile MVP creation, within highly targeted niches.

Homelab

July 2019 - Present

On premises: Rack containing GPU-equipped servers, custom router hardware, 24 port VLAN switch, 5-Bay NAS

Remote: 2 VPS in different geographic regions, Object Storage, Site-to-Site VPN connecting all locations

Certifications

Security+

Comptia

<https://cp.certmetrics.com/comptia/en/public/verify/credential/9N8Z7DT4JQPLFH39>

January 2025

Network+

Comptia

<https://www.certmetrics.com/comptia/public/verification.aspx?code=KT6B2J80J79LF9WH>

January 2023

Languages

English

Native Language

German

A1 Proficiency

Japanese

N5 Proficiency