

Okeith Percy

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Software Engineer

TECHNICAL SKILLS

Languages: C++, C#, Go, Python, Bash, TypeScript, JavaScript

Frontend: React, HTML, CSS, Lit, NodeJS

Embedded/Hardware: ESP32, Raspberry Pi, systemd, RTOS2

Infrastructure: Linux, Docker, Kubernetes, Git, CI/CD, GraphQL, SQL

Tools: Prometheus, Grafana, Splunk, Datadog, RabbitMQ, Make/Task, Vim

EXPERIENCE

Software Engineer

July 2023 – Current

PayPal

Remote TX

- Work on PayPal's **Buy Now, Pay Later (BNPL)** product while playing a key role in building the next-generation BNPL platform from scratch, contributing to system design, and development, also led the technical implementation of NTTP (New to PayPal), increasing buyer approvals by **20%** through bank-based identity verification. **Tech: Typescript, Golang, Lit, React**
- Drives BNPL product globalization by implementing localized messaging and launch support for multiple international markets, including Canada, Germany. **Tech: Typescript, React**
- Assisted in the decoupling of logging from the primary application by contributing to a Go-based logging service, improving system efficiency and helping achieve a **~40% reduction in infrastructure usage** and **\$100K+ in annual cost savings**.

Embedded Software Engineer

Jan 2022 – July 2023

FATHOM5

Austin, TX

- Designed a custom domain-specific language using ANTLR v4 for a ship sensor-based maintenance system, enabling real-time fault and maintenance detection from proprietary sensor data ingested via packets; deployed microservices on bare-metal using Kubernetes, Docker, and Zephyr RTOS for air-gapped shipboard environments. **Tech: Go, ANTLR v4, Zephyr RTOS, Kubernetes, Docker**
- Developed systemd service configurations with symlinked auto-start for microservices on Raspberry Pi, enabling automated boot sequences for HWIL testing and deployed buoy systems; built custom binary version exporters for monitoring and visualization. **Tech: Shell Scripting, systemd, Ansible, Grafana, Prometheus**
- Architected a real-time maritime domain awareness web application integrating live radar feeds, optical/thermal camera controls, and interactive mapping displaying buoy telemetry and AIS vessel tracking via NOAA data; implemented secure authentication for operational access. **Tech: React, TypeScript, Go, GraphQL**
- Built CI/CD pipelines and unit testing infrastructure for Go microservices, achieving 70%+ code coverage; automated build, test, and deployment workflows to private container registries. **Tech: GitLab CI, Docker, Go, Shell Scripting**

Fullstack Web Developer

Apr 2019 – Jan 2022

Self-Employed - Percyus

Houston, TX

- Managed concurrent websites, effectively prioritizing tasks, consistently meeting deadlines, and ensuring the timely delivery of websites.
- Collaborated with clients to comprehend their needs, translating these requirements into technical solutions, such as a website designed to honor and remember beloved animal companions. **Tech: HTML/CSS, Javascript, React**
- Built and supported dynamic websites and applications, leveraging tech and tools such as WordPress and Shopify to meet and exceed client expectations, exemplified by the creation of an e-commerce platform focused on providing supportive resources and products for individuals experiencing health-related hair loss.
- Maintained strong client relationships through proactive communication, regular progress updates, and responsive support. Empowered clients by providing them with the knowledge and tools necessary to manage and maintain their own websites.

Electronic Maintenance Technician

July 2020 – Jan 2022

HEB

Houston, TX

- Cooperated with store managers to swiftly identify and resolve technical challenges, such as rectifying computer malfunctions, ensuring minimal disruption.
- Championed the integration of new equipment and technology across multiple locations, including network switch roll-outs, payment processing systems, and system migrations elevating each store's technical capabilities.
- Coordinated and managed complex projects, which includes setting up server rooms, running network cabling, installing cooling and backup power systems, and configuring network equipment. Notably, played a critical role in the successful creation of HEB wellness primary care centers.

EDUCATION

University of Houston
Bachelor of Science in Computer Science

Houston, TX
Dec 2019