

# PHILIP BROWNE

## SOFTWARE ENGINEER

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### TECHNICAL SKILLS

**Languages:** Go (Golang), JavaScript, TypeScript, Python, C#

**Frontend:** React.js, Next.js, Vue.js, Nuxt.js, TailwindCSS

**Backend & Databases:** Gin, Echo (Go), Flask, Django, gRPC, RESTful API Development, MongoDB, SQL, PostgreSQL, MySQL, Redis, ElasticSearch

**Cloud & DevOps:** Docker, Kubernetes, Helm, AWS, Azure, Google Cloud, Oracle Cloud, Terraform, Jenkins, GitHub Actions, GitLab CI, Cloudflare

**Messaging, Monitoring & Tools:** NATS Jetstream, RabbitMQ, Prometheus, Grafana, OpenTelemetry, Git, Linux CLI, Jira, Agile, OpenAPI (Swagger), Testing (Jasmine, Jest, Mocha, Testify)

### WORK EXPERIENCE

#### Software Engineer - Megaport

2022 – Present

- Awarded Megaport's 2024 Engineering Team Award as a key developer of the [Megaport Terraform Provider \(Terraform Registry\)](#), a core tool enabling Infrastructure as Code (IaC) for Megaport's network services. This provider played a role in enhancing service automation and customer experience, supporting [Megaport's achievement of 28% revenue growth in FY24 \(to \\$195.3M AUD\)](#) and its [H1 FY25 Annual Recurring Revenue of \\$226.6M AUD \(18% YoY growth as of December 2024\)](#). The provider has been downloaded approximately 1.7 million times over the past year, reflecting its widespread adoption.
- Primary developer of the [Megaport Go SDK](#), enabling scalable and maintainable API integrations used across internal tools and customer-facing services.
- Developed the [Megaport CLI](#), streamlining cloud resource management with support for shell autocompletion, config management, and auto-generated documentation.
- Built enterprise-grade microservices using Go and gRPC/REST for the Megaport One Platform, reducing latency and increasing reliability in cloud orchestration workflows.
- Unified cloud provisioning pipelines by engineering a Go-based microservice for Layer 2 connectivity using Megaport's network services, enabling seamless integration with AWS, Azure, GCP, and Oracle Cloud and enhancing interoperability across major cloud vendors.
- Developed version 2 of the Megaport One Compute Microservice, enabling Kubernetes clusters to connect with cloud service providers and orchestrate Helm application deployments via event-driven state management with NATS Jetstream, enhancing fault tolerance and deployment reliability.
- Mitigated service disruptions during high-traffic events by developing a Redis-backed gRPC rate-limiting middleware, protecting platform stability in real time.
- Built a multi-channel alerting microservice with integrations across Sendgrid, Twilio, Slack, Prometheus, PagerDuty, and OpsGenie, reducing mean time to resolution (MTTR).
- Developed a secure admin dashboard using Go, gRPC Gateway, and Vue.js/Nuxt.js, with UI styled in TailwindCSS and access control enforced via Cloudflare Access.
- Authored comprehensive OpenAPI specifications for Megaport One APIs, accelerating third-party integration and developer onboarding.
- Delivered highly responsive user interfaces with Vue.js/Nuxt.js and TailwindCSS, improving platform engagement and usability.
- Automated cloud onboarding processes by scripting AWS and GCP integrations, cutting down setup time for new customer deployments.
- Key Technologies: Golang, Terraform, MongoDB, Microservices, gRPC, NATS Jetstream, Docker, Kubernetes, Helm, Vue.js, Nuxt.js, TailwindCSS, AWS, Azure, GCP, Redis.

### EDUCATION

#### Springboard Software Engineering Career Track Fellowship (2021)

An 800-hour fellowship that covers key aspects of front-end web development, back-end web development, databases, and data structures and algorithms. Modules include learning resources, practice exercises, projects, and career-related coursework.

#### Johns Hopkins University, Baltimore, Maryland (Graduated with BM in 2009, GPD in 2012)

*Bachelor of Music, French Horn Performance; Graduate Performance Diploma (GPD), French Horn Performance*

#### Yale University Graduate School of Music (2012-2014)

### OPEN SOURCE CONTRIBUTIONS

- [Terraform Provider Megaport](#) - Key contributor enabling automated provisioning of network services through Infrastructure as Code.
- [Megaport Go SDK](#) – Primary contributor to this Go library for programmatic interaction with Megaport's API services.