Christopher Alpuerto

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Education

California State University, Fullerton — Fullerton, CA
B.S. Computer Science — *Expected Graduation: May 2027*

Experience

Software Engineer Intern, DevOps — June 2026 – Oct 2026 (Extended Into Fall)
Paramount+, Platform Engineering — *Los Angeles, CA*

- Owned the build and launch of an internal DORA metrics platform (Next.js, FastAPI, PostgreSQL) tracking delivery performance across the entire engineering organization, giving the CTO org-wide visibility into deployment health and AI-tooling spend.
- Automated CI/CD pipelines across Jenkins, GitHub Actions, and ArgoCD, automating build and deployment workflows to cut average build time by **18%** over four months, while diagnosing and resolving deployment failures.
- Right-sized Kubernetes capacity for live UFC broadcasts serving millions of concurrent viewers, tuning pod resources post-event to cut compute costs by **22%**, while coordinating org-wide code freezes ahead of each event.
- Built GCP infrastructure with Terraform and deployed applications to Kubernetes using Helm, reducing change failure rate by **34%.**

Software Engineer — July 2025 – June 2026
Teamlead (Contract) — *Los Angeles, CA*

- Built FastAPI and TypeScript services that sustained up to **5,000** sessions at **300** ms p95 latency during load testing.
- Owned backend APIs and deployment infrastructure for a three-person team, automating releases end to end with containerized CI/CD and enabling **40+** deploys per week.

Projects

HoopTuber | *Next.js, React Native Expo, FastAPI, Python, TypeScript, Google Cloud, Docker* — Aug 2025 - Present

- Developed and deployed a full-stack basketball social media video platform, serving **400+** waitlist signups and **150+** daily beta users, validating early product-market demand; currently expanding the platform into a cross-platform iOS and Android app using Expo and React Native.
- Designed RESTful APIs in FastAPI to manage authentication, user workflows, and asynchronous job lifecycles.
- Generated **$500 MRR** in the first month of launch by developing an AI-driven video analysis pipeline using **Vertex AI** and implementing Stripe-based RBAC tiers to monetize automated highlight generation.

Cloud Video Encoder | *Python, FFmpeg, Google Cloud (Cloud Run, GCS, Pub/Sub), Docker* — Dec 2025 – Present

- Developed an FFmpeg-based video encoder in Python to convert iPhone HEVC/.MOV videos to H.264/.MP4, eliminating codec incompatibilities affecting 30–40% of uploads and increasing successful analysis rates by **35%**, unlocking support for **50%+** more users on HoopTuber.
- Built GitHub Actions CI/CD workflows that tested and containerized services, published versioned images to Artifact Registry, and auto-deployed to Cloud Run, enabling one-step rollbacks and eliminating manual releases.

Redis Cache Proxy | *Go, Google Cloud Run, GitHub Actions, Docker, Upstash* — April 2026 - Present

- Built a Go-based Redis caching service using Upstash Redis to cache frequently requested job and user metadata, reducing repeated backend/database lookups by **60%** by serving cached responses through a lightweight REST API inside Google Cloud Run, improving response speed and lowering unnecessary cloud/API usage.

Trading System For ETFs | *Python, JavaScript, HTML/CSS, Flask, YFinance API,* — Aug 2024 – Dec 2024

- Built and deployed a full-stack ETF strategy backtester on Heroku with Flask and JavaScript, simulating SMA, Bollinger Bands, and MACD strategies against a $100K virtual portfolio and visualizing historical performance over custom date ranges via the Yahoo Finance API.

Technical Skills

Languages: Python, Go, TypeScript, JavaScript, Java, SQL, Bash, C++, HTML / CSS
Infrastructure: Kubernetes, Docker, Terraform, Helm, Jenkins (Groovy), ArgoCD, GitHub Actions, GCP, AWS
Frameworks: React, Node.js, Next.js, Flask, FastAPI, Gin
Data & Storage: PostgreSQL, MySQL, Redis, Firestore, Google Cloud Storage
Tools: VS Code, Cursor, Git, GitHub, Claude Code, Codex, MCPs