Harrison Ford

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EXPERIENCE

Synapse Softworks LLC **Raleigh, NC (Remote)**
DevOps / Infrastructure / Software Engineer *Aug 2022 - Present*
- Created fault-tolerant & reliable services with an uptime rate of 99.99999%, with no recorded downtime since launch.
- Managed & maintained servers which actively handle 150+ TB of traffic each month.
- Designed & launched a new e-commerce website using Next.js, Cloudflare, AWS ECS and friends with 3+ million unique visitors/month
- Introduced ELK stack (Elasticsearch, Logstash, Kibana) to enable complex aggregation of massive data-sets, enabling fraud analysts to proactively prevent fraudulent user activity
- Negotiated & worked with multiple SaaS vendors on contracts totaling over $3m+ USD.
- Deployed company-wide MDM program (via Apple Business Manager / Microsoft Intune) to manage a fleet of 10+ devices.
- Actively mitigated large-scale DDoS attacks (peak 300m+ requests) via Cloudflare WAF rules, mitigating the impact on end-user experience
- Deployed & managed (via Ansible) a cluster of bare-metal high-performance machines to help accelerate GitHub Actions performance, reducing build times by 60-70%.
- Technologies: AWS (Amazon Web Services), Ansible, Elasticsearch, Cloudflare, Terraform, Next.js, Rust, C++, TypeScript, HTML, GitHub Actions

Synapse Softworks LLC **Raleigh, NC (Remote)**
DevOps Engineer / System Administrator *Jun 2022 - Aug 2022*
- Spearheaded the company's migration from GitLab → GitHub Enterprise, including migration of 30+ CI pipelines to GitHub Actions.
- Created & deployed reliable AWS infrastructure for C# services via Terraform / GitOps
- Significantly reduced developer friction using GitHub Actions, saving over $30k+ USD in labor, and reducing the barrier of entry to deploy code to production.
- Technologies: AWS (Amazon Web Services), Cloudflare, Terraform, GitHub Actions

Symmetry Investments **Charlotte, NC (Remote)**
Contract Software Engineer *Jul 2021 - Jul 2022*
- Wrote & maintained performance-sensitive code that is currently used to trade $50 million+ USD via algorithmic trading applications.
- Directly committed code to the organization's standard library, which is used by 100+ engineers on a daily basis.
- Co-led an initiative to provide "private cloud" services for the entire organization, which involved setting up & maintaining a cluster of 20+ Linux servers.
- Technologies: HashiCorp Nomad, HashiCorp Consul, HashiCorp Vault, Terraform, D Programming Language, GitHub Actions

int3 Systems, LLC **Raleigh, NC / Charlotte, NC**
Founder / Lead Consultant *Nov 2020 - Present*
- Kept business in active compliance with all local & federal regulations.
- Provided software development consulting services for 6+ clients, netting a total of $150k+ USD over the lifetime of the company.
- Designed reusable IaC (Infrastructure as Code) components via Terraform for AWS ECS / CodeBuild
- Migrated legacy PHP applications to AWS via AWS ECS
- Technologies: AWS (Amazon Web Services), Terraform, PHP, GitLab, D Programming Language, C, C++

Premiere Digital Services **Raleigh, NC (Remote)**
Contract Software Engineer *Nov 2020 - Dec 2021*
- Designed and architected a full software & hardware solution based on the NVIDIA Tegra X1 platform.
- Implemented support for the D Programming Language to Yocto Linux.
- Created a streaming platform using WebRTC to stream real-time video from low-power IoT devices.
- Technologies: AWS (Amazon Web Services), WebRTC, Yocto Linux, Embedded Linux, D Programming Language, C

LANGUAGES / TECHNOLOGIES

- Languages: C, C++, D, Python, Rust, JavaScript, CSS, HTML, TypeScript, Java, Bash
- Technologies: AWS (Amazon Web Services), Microsoft Azure, React, Next.js, Cloudflare

PROJECTS

Linux on HP Prime Graphing Calculator
 hatf0/prinux *Mar 2023 - Present*
- Enabled Doom (on Linux) to run on a HP Prime G2 Graphing Calculator.
- Used Buildroot to create a customized Linux root filesystem.
- Tinkered with the Linux kernel build system to enable kernel modules for the Vivante GPU.

Mir Project
 libmir *Jan 2021 - Jul 2022*
- Contributed heavily to the Mir project – a collection of libraries designed for scientific computing.
- Revamped CI/CD across the entire project, replacing Travis-CI with GitHub Actions.

Intel Wireless Driver on macOS

 AppleIntelWifi/adapter   *Jan 2020 - Jul 2020*

o Prototype wireless driver built with Apple's IOKit framework. Uses the undocumented Apple80211/IO80211Family libraries.

EDUCATION

University of North Carolina at Charlotte   **Charlotte, NC**

B.Sc. in Computer Science, GPA: 3.36   *Expected Graduation: Dec 2025*

MISC

o Certified as an AutoCAD Certified User
o Conversational in Japanese