

# Christopher Perkins

## Full-Stack Software Engineer

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### TECHNICAL EXPERIENCE

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#### Open Source Contributor, *ZenML* Jul 2024 – present

- Implemented Directed Acyclic Graph (DAG) rendering feature allowing developers and data scientists to view DAGs directly inside a Visual Studio Webview Panel
- Introduced MLStacks feature, directly allowing MLOps engineers to register/update/delete ZenML stacks and stacks components through easy to grasp form instead of verbose cli commands
- Fixed issue with real-time monitoring of ZenML environment changes not updating the UI for configuration modifications
- Squashed bug not allowing the extension to retrieve server information with newer clients

#### Creator, Software Engineer, *Reverb* Jan 2024 – present

- Created Reverb, an open-source event-driven asynchronous workflow engine that allows users to script complex, multi-step background sequences, handling 100+ events per second
- Architected a microservice architecture hosted on AWS for ingesting events, mapping events to workflows, and executing workflows step-by-step
- Implemented a wrapper around CDK core methods, reduced an 152 step AWS deployment to 1 command
- Transformed development workflow with Docker, improving local testing reliability and deployment consistency to AWS, resulting in developers having a unified environment for testing
- Designed a TypeScript SDK allowing developers to script custom multi-step functions, tying functions to events and cron, while abstracting away the server accepting RPC allowing for improved developer experience
- Engineered Github Actions to automate deployment of custom user code, integrating lambda invocation for seamless execution; transformed a cumbersome 4-step manual process into an automatic workflow triggered by pushing commits to Github
- Unified interaction with REST APIs and deployment through development of an OCLIF based CLI tool, packaging 100% of Reverb's necessary commands in a central location

#### Freelance Developer, *Self-Employed* Jan 2019 – Jan 2024

- Designed HTRB, a Ruby Gem that provides a web developer a DSL for composing custom HTML components in a virtual DOM tree much like JSX
- Fabricated 2 styles of Arduino shields and provided software for a plug and play solution to interfacing Arcade1Up hardware with PC without any permanent modifications

#### Deskside Technician, *Stefanini* Dec 2021 – Jan 2024

- Conducted front-line technical support on-site at Nike's logistics operations, ensuring smooth productivity through sub-15 minute response times
- Engineered software to detect duplicate print jobs on a Zebra ZT610 reducing time spent on task by over 90% earning publicized praise of Technical Infrastructure Shift Lead; streamlined problem ticket diagnosis

### SKILLS

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**Backend:** Node.js, Ruby, Golang, Python, C#, .NET, SQL, RDBS, PostgreSQL, NoSQL, MongoDB, Redis, REST, API, Microservices, Express, Sinatra, Jest, Minitest, JWT | **Frontend:** JavaScript, TypeScript, React, CSS, HTML, Cypress | **Other:** Git, Github, Version Control, Docker, Nginx, AWS (EC2, ECS/Fargate, Lambda, CloudFormation, CDK, S3, IAM, RDS), DigitalOcean Droplets, Postman, Testing (Unit, Integration, E2E), Visual Studio Code, Slack, Windows, Linux

### CERTIFICATES

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CompTIA Network+ | CompTIA Security+

### EDUCATION

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#### Launch School Dec 2022 – Dec 2023

Multi-year, mastery-based software engineering curriculum. Read more at [launchschool.com/employers](https://launchschool.com/employers) 