Christopher Perkins

Full-Stack Software Engineer

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SUMMARY

Full-stack software engineer transitioning from IT support in logistics, focused on improving developer experience. Launched features for ZenML's Visual Studio Code extension and co-created Reverb, an event-driven workflow engine. Automated a task at Stefanini, cutting diagnostic time by 90%. Thrives in collaborative environments and continually learns new technologies. Enjoys painting miniatures and hiking.

TECHNICAL EXPERIENCE

Open Source Contributor, *ZenML* 🔗   July 2024 – August 2024
- Enhanced Python integration by adding features to the language server, enabling interaction between the TypeScript extension and ZenML client.
- Implemented Directed Acyclic Graph (DAG) rendering feature in Visual Studio Code, allowing developers to visualize DAGs within a Webview Panel.
- Enabled management of custom ZenML stacks and components via user-friendly forms, cutting setup complexity by 30% and reducing errors from manual CLI entries.
- Fixed real-time monitoring issue, improving ZenML environment change detection accuracy to 100%.
- Resolved API compatibility issue, enabling extension functionality with newer ZenML clients.

Co-Creator, Software Engineer, *Reverb (reverb-app.github.io)* 🔗   January 2024 – June 2024
Reverb is an open-source, event-driven asynchronous workflow engine handling 100+ events per second.
- Architected AWS-hosted Node.js microservices for event ingestion, workflow mapping, and step execution.
- Simplified AWS deployment with the CDK, reducing a complex 152-step process to a single command.
- Improved local testing and deployment with Docker, creating a unified environment for developers.
- Designed a TypeScript SDK for scripting custom multi-step workflows, enhancing the developer experience.
- Automated deployment with Github Actions, transforming a 4-step manual process into an automatic workflow.
- Used MongoDB for logging and PostgreSQL with Graphile Worker for queue management, enhancing Reverb's event processing.
- Built an OCLIF-based CLI tool to centralize interaction with REST APIs and deployment.

Freelance Developer, *Self-Employed*   January 2021 – January 2024
- *HTTP Hoarder*: A tool for inspecting webhooks and HTTP requests. (Node.js, React.js, MongoDB, Postgres)
- *HTRB*: Ruby library that provides a domain specific language for hypertext.
- *Blink Out*: Web-based game of turning off lights in a 6x6 grid.

Deskside Technician, *Stefanini*   December 2021 – January 2024
- Provided technical support at Nike's logistics operations, maintaining sub-15 minute response times.
- Developed software to detect duplicate print jobs on Zebra ZT610, reducing diagnostic time by 90%.

SKILLS

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*

EDUCATION

Launch School   December 2022 – December 2023
Multi-year, mastery-based software engineering curriculum. Read more here 🔗 .