

Charles A. Hartman

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Professional Experience

Co-creator, Software Engineer, *Artemis* [🔗](#) 2022 – present

- Designed, prototyped, and implemented Artemis, an open-source, serverless framework for scalable API load testing. Artemis is an easily deployable, cloud-based load testing framework that provides robust data retention and a clean, customizable dashboard to visualize near real-time results.
- Designed and built AWS infrastructure to generate a load of up to 20,000 virtual users.
- Engineered a solution for starting tests across load testing containers simultaneously.
- Built a CLI application using AWS CDK and SDK libraries to automate the deployment of Artemis' infrastructure and to allow users to create, configure, and launch their tests.
- Developed an admin dashboard to make Artemis' CLI functionality available through a graphical user interface using React.js and Express.
- Built a robust and easy-to-use CLI with Node.js and Commander.js and published it as an NPM package.
- Created custom Docker images for the load generation, data aggregation, and data visualization containers within Artemis' architecture.
- Collaborated with a remote team of engineers, including daily standups and pair programming.
- Presented a live tech talk about Artemis, viewable at <https://artemis-load-testing.github.io/#presentation> [🔗](#)
- Authored a comprehensive technical case study describing the load testing problem domain and Artemis' technical design decisions, readable at <https://artemis-load-testing.github.io/> [🔗](#)

Software Engineer, *Self-employed* 2020 – 2022

A few of the projects & technologies used during this time:

- TortoiseBin - A tool to inspect and debug webhook requests (Nginx, Express, PM2, PostgreSQL)
- Trellis - A Trello-like kanban board for task tracking (MongoDB, Express, Node, React, Redux)
- Shopping Cart - A database-backed inventory management app (React, Redux, MongoDB, Node)
- Contact Manager - A web application using the MVC design pattern (HTML, CSS, JavaScript)
- TodoList - A full-stack web to-do list application (Sinatra, Ruby, Heroku, PostgreSQL)

Founder and Director, *Charles A. Hartman Fine Art* 1996 – 2021

- Sustained consistent growth in revenue, profit, and reputation for this successful art gallery.

Skills

Back end

Node.js, Express, Ruby,
Golang, PostgreSQL,
MongoDB, RESTful APIs

Front end

JavaScript, React, Redux,
Handlebars.js, HTML,
CSS

Cloud / AWS

Lambda, ECS, Fargate,
S3, ECR, Timestream,
EC2, VPC, CloudWatch

Tooling

AWS (CDK, SDK), Git,
GitHub, Docker, Linux,
Bash, Postman, Grafana,
Digital Ocean, Heroku

Education

Software Engineering, Capstone Program, *Launch School* [🔗](#) 2020 – 2022

Multi-year, mastery-based software engineering curriculum, with progression gated by written exams and live coding interviews to develop problem-solving and technical skills. (<https://launchschool.com/employers> [🔗](#))

Bachelor of Arts, cum laude, Religious Studies, *Kenyon College* 1988 – 1992