

# 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*** 2018 – 2022

Developed open-source applications with technologies such as Node.js, Express, Sinatra, React, Redux, SQL, HTML, CSS, Ruby, and JavaScript. Built numerous front-end, back-end and full-stack applications including:

- 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)
- Contact Manager - A web application using the MVC design pattern (HTML, CSS, JavaScript)

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

- Sustained consistent growth in revenue, profit, and reputation for this successful art gallery.
- Led the development of the company's website, which was integral to ongoing sales and marketing efforts.
- Directed all sales, curatorial, and finance operations while building strong relationships with all stakeholders.

## 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