

# Sofia Alere

## Full-Stack Software Engineer

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### PROFILE

Software engineer based in Chicago, born in Latvia. Proficient in Ruby, JavaScript/Node.js, PostgreSQL, AWS, Docker, and React. Through my previous experience as a team member on luxury yachts, I've cultivated a deep appreciation for collaborative work environments and honed my problem-solving skills. Most recently I created Sundial, a cron job monitoring and management system.

### SKILLS

#### Tools & Databases

Git/Github, PostgreSQL, MongoDB, SQLite, Docker, Postman, NGINX, Linux, Bash, Shopify, HTTP, WebSockets

#### Cloud

Digital Ocean, AWS (EC2, IAM), Heroku, Fly.io, VPCs, Render

#### Languages

Javascript (ES6+), Typescript, Ruby, Golang, SQL, HTML/CSS

#### Runtimes, Libraries & Frameworks

Express, Node.js, Sinatra, React/Redux, Jest, JQuery, Handlebars

### PROFESSIONAL EXPERIENCE

- 2023 – present **Software Engineer & Co-Creator, Sundial** 📄
- Sundial is a self-hosted, open-source cron job monitoring and management system that allows real-time bi-directional communication between the user and crontabs on one or multiple nodes.
- Developed a suite of command-line scripts to integrate the centralized monitoring and management service with any node's cron utility. **(Node.js, Javascript)**
  - Addressed the challenge of the system reacting to non-events, when jobs do not run, utilizing **Task Queues. (PostgreSQL 'pg-boss')**
  - Implemented a **RESTful API** facilitating app component communication and persistence of cron job execution information. **(Node.js, Express, PostgreSQL)**
  - Constructed a responsive dashboard that provides real-time cron job execution data and a centralized place for performing CRUD operations on crontabs. **(React, Material UI, SSE's)**
  - Enabled communication from the service to a nodes crontab through an **HTTP Express server**, daemonized using **systemd's unit files**.
  - Designed load tests to determine Sundial's performance under several conditions, observing a 0% failure rate up to 200 concurrent monitored jobs. **(Grafana k6)**
  - Increased security on network connected multi-node set ups through requiring **JWT Tokens and API Keys**.
  - Provided an alternative set up for even more security with instructions on how to deploy on **Digital Ocean VPCs**.
  - Transformed central service set up from a 10-step+ to a 2-step process by containerizing server code. **(custom DockerHub images, Docker Compose)**
  - Eliminated installation dependencies on target nodes with packaging scripts into executable binaries using the **'pkg' library**
  - Authored Sundial's comprehensive technical **case study** 📄.
  - Collaborated remotely with a team of four engineers across three time zones, utilizing Agile workflow practices such as daily stand-ups and pair programming. **(Github, Slack, Trello)**
- 2021 – 2023 **Software Engineer, Self Employed**
- Developed freelance and open-source projects.
- Shopify Southern Marsh Promotion:**
- Identified and debugged errors in promotional discount logic in a **Shopify** backend.
  - Enhanced resilience of codebase segment through re-factoring it in a **Object-Oriented Programming (OOP)** paradigm. **(Ruby)**
- Inquiry Hub:**
- Developed an application that aids in debugging **web-hooks** by receiving and displaying them in real-time.
  - Built with **React, Express, MongoDB**, and **PostgreSQL**. Served on a **Digital Ocean** droplet via **NGINX** managed by **PM2**.
- 2017 – 2021 **Owner & Professional Yachting Contractor, Sea Nemo**
- Contributed to multiple skilled teams, orchestrating excellent service on luxury yachts.
- Fostered a collaborative and positive work environment through developing strong connections with other team-members and guests.
  - Revamped training protocols and personally mentored several new staff with a focus on continuous professional development.