

# Mary McDonald *Software Developer*

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## Skills

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### Languages

JavaScript, Golang, SQL, HTML/CSS

### RTE, Libraries & Frameworks

Node.js, Express, React Native, Jest

### Tools & Databases

Git/Github, PostgreSQL, MongoDB, Shell, nginx

## Development Experience

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2023/09 – 2023/12

### Co-Creator & Software Developer

*Sundial* ([project-sundial.github.io](https://project-sundial.github.io)) [🔗](#)

Sundial is a self-hosted, open-source cron job monitoring and management system that can be operated across one or multiple nodes.

- Prototyped and built Sundial using Node.js and React
- Created a binary executable that includes command line scripts and a daemonized server
- Architected and implemented a logical solution to the challenge of monitoring and notification of jobs not completing (non-events) using task queues
- Reduced service setup to a two-step process using Docker (images, docker-compose)
- Constructed a UI to display real-time job monitoring (React, Server-Side Events) and provide management of the crontab without the use of a CLI
- Collaborated with a team of 4 engineers across 3 countries
- Authored technical case study, available at [project-sundial.github.io/case-study](https://project-sundial.github.io/case-study) [🔗](#)

2021 – 2023

### Software Developer, Open-Source Projects

A selection of open-source projects developed during my career transition:

- **Request Bin:** A real-time web hook request inspection and debugging application (Node.js, Express, React, MongoDB, websockets)
- **Todo Tracker:** A Single Page Application backed by a PostgreSQL database (Node.js, Express, Pug, PostgreSQL)

## Professional Experience

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2014 – 2021

### Multiple Roles, Customer Experience

*Slack, Wattpad*

At **Slack** (2016-2021), I worked as an Enterprise Lead and a Customer Insights Specialist. As an **Ent Lead**, I provided in-channel support to select large enterprise customers on the use of features and at-scale management of the Enterprise Grid product.

As an **Insights specialist**, I ran customer experiments and customer feedback programs for Product Managers for pre-release features (including writing SQL queries and building dashboards.)

At **Wattpad** (2014-16), I was a Customer Support Agent. I investigated and surfaced bugs and pain points within the product, interacting directly with Engineering and Product.

## Education

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2021 – 2023

### Software Development & Full-Stack Web Development

*Launch School* [🔗](#)

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

2009 – 2012

Vancouver, BC

### Bachelor of Arts

*UBC*

German, minor in Russian

2005 – 2009

Waterloo, ON

### Bachelor of Mathematics

*University of Waterloo*

Combinatorics & Optimization