

# CHARLES HEBERT

Software Engineer

UK/US citizen

**Mobile** +353 89 222 6801

**My code** [github.com/chooie](https://github.com/chooie)

**Email** [charles.hebert@incremental-it.com](mailto:charles.hebert@incremental-it.com)

**Website** [incremental-it.com](https://incremental-it.com)

A web developer with over 7 years of full-stack JavaScript experience. I've worked for start-ups, big tech (Amazon), and small companies.

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## EXPERIENCE

### Incremental IT

2018 – Present

*Software engineer contractor*

- Built a number of portfolio and e-commerce sites for a variety of clients.

1. [juncha.com](https://juncha.com)
2. [allgoodproducts.com](https://allgoodproducts.com)
3. [nakedleaf.com](https://nakedleaf.com)

### Amazon Web Services

2019 – 2021

*Frontend Engineer (FEE2)*

- Worked on an internal service that monitored data center electrical and thermal health, catching numerous large-scale events before they could happen.
- Created real-time dashboards, ticketing systems, and in-application editing solutions.
- Created the backend infrastructure that was regionalized globally.
- Developed our pipeline, testing, continuous integration/delivery.
- Part of 30+ hiring loops and mentored a few engineers, instilling Amazon's leadership principles and engineering practices.

### SpotX

2016 – 2018

*Software engineer*

- Helped develop two mobile SDKs that serve millions of ads on Android and iOS apps per day.
- Improved product quality and developer feedback by introducing a number of tools and practices, including:

Reproducible builds, continuous integration (with *Jenkins*), specification by example, and containerization (with *Docker* and *OpenShift*).

- Developed test suites that would run after every deploy to staging, preventing many defects from entering production.

## **Cambium Consulting**

2017 – 2018

### *Software engineer contractor*

- Frontend and backend development on a new underwriting platform in Clojure and ClojureScript. The system analyzes bank statements to assess the risk of a business loan.
- Improved the feedback loop by introducing a CircleCI pipeline.
- Increased release safety and confidence by creating a production-like staging environment.

## **Trilogy Education – Denver University**

March 2017 – October 2017

### *Assistant instructor*

- Partnered with Denver University to help teach a part-time course on full-stack web development.
- Taught and mentored over 60 students in fundamental programming practice and the use of emerging tools in the frontend and backend (Node.js) ecosystems.

## **Good Travel Software**

Summer 2015

### *Software developer intern*

- Wrote an Angular client to support visualizations for a predictive analytics platform.
- Allows car-sharing companies to more effectively manage their fleets by tracking the supply and demand of vehicles.

## **MIAC Acadametrics Ltd**

Summer 2014

### *Software developer intern*

- Empowered MIAC and its clients to exchange files more quickly and securely than the existing FTP approach by building a web-based, file-exchange application.

## **Hard Medium Soft Ltd**

Summer 2013

### *Software developer intern*

- Completed a contract to redevelop an accounting platform.
- Reduced the existing codebase by hundreds of lines of code, modularized many of the existing features, and remade the UI. This resulted in a codebase that was easier to work with and a finished product with an improved user experience.

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## EDUCATION

**Trinity College Dublin, The University of Ireland** 2012 – 2016

BA (Mod) in Computer Science and Business - 2:1 (GPA 3.33-3.67)

[scss.tcd.ie/undergraduate/computer-science-business](https://scss.tcd.ie/undergraduate/computer-science-business)

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## SKILLS

### Proficient in

JavaScript (and TypeScript), HTML, CSS (and SCSS), HTTP, JSON, Node.js, SQL (with PostgreSQL), Bash Scripting, Git, Docker, GreenSock Animation Platform (GSAP), ReactJS, Remix, TailwindCSS, Mocha, AWS, Shopify, WordPress

### Familiar with

PHP, NoSQL, LaTeX, Animation, ThreeJS, Figma, Adobe Illustrator

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## PROJECTS

### Node.js HTML template engine

Summer 2018

[github.com/chooie/js\\_to\\_html](https://github.com/chooie/js_to_html)

- An experimental template language inspired by lisp.
- All the benefits of a template language, without leaving JavaScript.

### Application templates for testing

Summer 2018

[github.com/chooie/test-driven-clj-cljs](https://github.com/chooie/test-driven-clj-cljs)

[github.com/chooie/automatopia-nodejs](https://github.com/chooie/automatopia-nodejs)

- Learnt about testing at the unit, integration, and end-to-end level in the Clojure and Node.js ecosystems.
- Explored testing CSS, an uncommon practice.

### Maze solver

Summer 2016

[github.com/chooie/maze-solver](https://github.com/chooie/maze-solver)

- Developed my understanding of functional programming and the Clojure environment by creating an application to solve mazes.
- A user can pass in an unsolved maze - the program will then permute paths through the maze until it finds the optimal solution.