

# CHARLES HEBERT

Software engineer

UK/US citizen

**Mobile** +1 (720) 936 1329

**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)

I seek opportunities working on impactful products. I aim to work with teams that are value-focused, exemplars of technical excellence in practice, and industry leaders.

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## EXPERIENCE

### Incremental IT

*Software engineer contractor*

July 2018 - Current

I provide technical solutions to on-demand business problems. Specializing in web technologies and Node.js, PostgreSQL, and Heroku (my preferred hosting platform), I develop products for my clients' businesses.

I work on corporate websites, dynamic web applications, and data APIs. My products are responsive on all the popular web browsers and they serve users on desktops, laptops, mobile devices, and tablets.

### SpotX

*Software engineer*

September 2016 - July 2018

Member of a team creating native mobile client software development kits (SDKs) to allow publishers to serve video advertisements within their applications.

Helped create the next iteration of SpotX's SDK offering that serves millions of advertisement impressions daily.

Improved product quality and developer feedback by introducing a number of tools and practices. These include *the reproducible build*, *continuous integration* (with Jenkins), and *specification by example*.

Increased developer confidence in making changes and deploying code to production by building out a comprehensive test suite as part of the build pipeline.

### Cambium Consulting - Incremental IT

*Software engineer contractor*

September 2017 - March 2018

Worked with a team creating a greenfield underwriting platform to analyse bank statements and extract data to assist in identifying a business' loan risk potential.

Improved the feedback loop by introducing a CircleCI pipeline, in addition to fleshing out the testing infrastructure across the Clojure/ClojureScript stack.

Increased release safety and confidence by creating a staging environment in Heroku for the purpose of exploratory testing a production-like environment before release.

### **Trilogy Education - Denver University**

*Assistant instructor*

March 2017 - October 2017

Partnered with Denver University to assist in teaching 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**

*Software developer intern*

Summer 2015

Led to completion the construction of the front-end of a predictive analytics platform. This improved the firm's product offering with a web application that offers intuitive visualisations and mappings of hundreds of thousands of data points in multiple languages.

The application provides an interface for clients to more accurately and intuitively track user demand and car supply, enabling them to more effectively manage their fleet of vehicles.

### **MIAC Acadametrics Ltd**

*Software developer intern*

Summer 2014

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

### **Hard Medium Soft Ltd**

*Software developer intern*

Summer 2013

Completed a contract to redevelop an accounting platform. I reduced the existing codebase by hundreds of lines of code, modularised 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

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, ClojureScript, HTML, CSS, HTTP, JSON, XML, Node.js, Clojure, Java, SQL, Bash Scripting, Git, Jenkins, Docker

### Familiar with

Ansible, PHP, NoSQL, LaTeX, Agile (Scrum, Lean & XP)

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## PROJECTS

Note: I use Heroku's free hosting service so some demo links may take more than a moment to load the first time.

### Application Templates for Testing

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

[github.com/chooie/automatopia-nodejs](https://github.com/chooie/automatopia-nodejs) - [Demonstration](#) Summer 2018

Learnt about testing at the unit, integration, and end-to-end level in the Clojure and Node.js ecosystems. Evaluated some ground-breaking work on testing CSS programatically.

### Tic-Tac-Toe Three-by-Three

[github.com/chooie/tic-tac-toe-three-by-three](https://github.com/chooie/tic-tac-toe-three-by-three) - [Demonstration](#) Spring 2017

Learnt the React framework by using it to make a simple game.

### Maze Solver

[github.com/chooie/maze-solver](https://github.com/chooie/maze-solver) Summer 2016

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.

### Clock.js

[github.com/chooie/clock.js](https://github.com/chooie/clock.js) - [Demonstration](#) Spring 2015

Improved my understanding of drawing graphics in a web browser by creating a library that draws simple analog clocks and updates them in real-time.