

# Chafic Najjar

## Front-End Web Developer

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## Profile

I am a **freelance front-end web developer** with experience in building responsive, performant and usable websites and web applications. I enjoy working with talented web developers and designers on challenging projects and take pride in writing clean, maintainable and standards-compliant code. I strive to deliver high-quality work and keep my clients happy.

## Experience

Feb. 2015 - Aug. 2017  
(2 years, 7 months)

### Freelance Front-End Web Developer

I build user interfaces for the web. Some of my work includes:

- The implementation and maintenance **gradle.com** and **gradle.org** — the web properties of Gradle Inc.
- The open source tool **Doppler Maps** — a library to create choropleth maps for the web.
- The data visualization dashboard of **Inbsr.org** — a web application to consolidate data on bariatric surgery across Lebanon.
- The portfolio website **edsab.com** of a product designer based in Paris.
- The data visualization dashboard of a web analytics service to track and report website traffic (commissioned by a client on Upwork).
- The first user interface of **elevatorexpress.com** — an online meeting point for professionals and companies in the elevator industry.

Jul. 2014 - Aug. 2014  
(2 months)

### Graphics Programmer Intern COMPUTERS & COMMUNICATION TECHNOLOGY - CCT, Beirut, Lebanon.

Quickly learned the fundamentals of web development and real-time computer graphics to work with another intern on implementing a usable web-based prototype of the BIM-based construction project control application **C3D Interactive**. My duties included:

- Creating a responsive web interface with resizable and dockable interface components.
- Writing a parser in Java to extract 3D model data from a proprietary file format.
- Loading and rendering large 3D models using WebGL and writing vertex and fragment shaders in GLSL.
- Implementing a first-person camera that can move and rotate in any direction.
- Refactoring JavaScript code for performance optimization and maintainability.

## Skills

Languages	Proficient in <b>HTML5, CSS3, SVG, JavaScript</b> • Familiar with <b>C++, Bash, Python, GLSL, Lua</b> .
Frameworks/Libraries	Experienced with <b>D3.js, jQuery, Jekyll</b> • Familiar with <b>React, WebGL, lodash, Bootstrap, Flask, OpenGL, SDL</b> .
Programming Tools	Experienced with <b>Git, Sass, npm, gulp, Grunt, Babel, Browserify, Rollup</b> • Familiar with <b>JSDoc, Make</b> .
Operating Systems	Experienced with <b>Arch Linux (Vim, i3, zsh, ack, find, grep, sed, GPG)</b> .
SaaS Tools	Experienced with <b>GitHub, Slack</b> • Familiar with <b>BrowerStack, Cloudflare, Google Analytics, Pardot, Heroku</b> .
Design Tools	Familiar with <b>Inkscape, GIMP, Material Design, E<sub>T</sub>X</b> .

## Talks

Aug. 6, 2016

**Data Visualization for the Web with D3.js** *MENA Devs Meetup #3*, Innovation Factory, Beirut, Lebanon.

Slides: <http://chaficnajjar.com/talks/data-visualization-for-the-web-with-d3-js/>.

## Formal Education

2012 - 2015

**B.S. in Computer Science** , *Lebanese American University (LAU)*, Byblos, Lebanon.

Took part in the MEPI Tomorrow's Leaders program (2012 - 2015) and studied at Wayne State University, Detroit (Summer 2013).

2009 - 2012

**French Scientific Baccalaureate** , *Lycée Alphonse de Lamartine*, Tripoli, Lebanon.

Specialized in Mathematics and graduated with high honors.

## Continuing Education

Nov. 2015

**Intermediate D3 for Data Visualization**, *Knight Center for Journalism in the Americas (University of Texas at Austin)*.

Certificate: <http://chaficnajjar.com/assets/files/certificates/intermediate-d3-for-data-visualization.pdf>.








Aug. 2015

**Data Visualization**, *University of Illinois at Urbana-Champaign on Coursera*.

Certificate: <http://chaficnajjar.com/assets/files/certificates/data-visualization.pdf>.

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## Side Projects

- PROPRIETARY  **Motion Comic Tool (work in progress)** • *HTML5, CSS3, Sass, JavaScript, gulp, Bower, npm, Python, Flask*.  
Web application for comic book artists to create motion comics in the browser and share them with the public.
- OPEN SOURCE  **d3.carte** • *JavaScript, D3.js, gulp, Bower, npm*.  
A reusable geographic map for D3.js.
- OPEN SOURCE  **Data Visualization Experiments** • *HTML5, CSS3, JavaScript, D3.js, Grunt, Bower, npm*.  
Random data visualization experiments with D3.js.
- OPEN SOURCE  **Gaia** • *C++, GLSL, Lua, OpenGL, SDL, tup*.  
Procedurally generated planet explorable with a free-floating first-person camera. Terrain is rendered by applying the 3D simplex noise method on an icosphere mesh.
- OPEN SOURCE  **21<sup>st</sup> Century Pong** • *C++, SDL, Make*.  
Pong clone with game controller support, artificial intelligence and sound. Available for Linux and macOS.
- OPEN SOURCE  **21<sup>st</sup> Century Tetris** • *C++, SDL, Make*.  
Tetris clone with smooth gameplay, game states, textures and sound. Available for Linux.
- OPEN SOURCE  **Sudoku Sorubā** • *C++*.  
Efficient backtracking Sudoku solver.

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## Awards

- Summer 2012 **2<sup>nd</sup> place winner** 🏆 (15% scholarship + iPod Touch) of the Computer Science Summer Institute at LAU.
- Summer 2011 **2<sup>nd</sup> place winner** 🏆 (\$2000) of the Google-sponsored CS4HS contest at the University of Balamand.

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## Languages

- English ★★★★★ Full professional proficiency in speaking & writing.
- French ★★★★★ Native proficiency in speaking & writing.
- Arabic ★★★☆☆ Native proficiency in speaking (Lebanese dialect); limited professional proficiency in writing.

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## Activities

- Nov. 2016 Data visualization developer at Data4Change 2016 — a 5-day workshop organized by *Small Media*.
- Nov. 2015 Data visualization developer at Data4Change 2015.
- 2014 - 2015 Volunteer at the Lebanese Red Cross, Youth Department.
- 2012 - 2015 Active member of the Association for Computing Machinery (ACM) chapter at LAU Byblos.
- 2012 - 2015 Attended a dozen workshops about leadership, conflict resolution and effective communication.
- 2013 - 2014 President of the ACM chapter at LAU Byblos.
- 2013 - 2014 Editor of the MEPI-TL LAU Students Newsletter.
- 2013 - 2014 Member of the Math club at LAU Byblos.
- 2012 - 2013 Webmaster of the ACM chapter at LAU Byblos.

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## Organizations

- 2016 - 2017 MENA Devs member.
- 2014 - 2016 ACM SIGGRAPH member.
- 2012 - 2015 ACM member.