

# — Arthur Xavier Gomes Ribeiro —

Rua JA, 18 - Contagem, MG • +55 31 98353 0924 • [arthur.xavierx@gmail.com](mailto:arthur.xavierx@gmail.com) • [arthurxavierx.github.io](http://arthurxavierx.github.io)

## Skills

### Expert

JavaScript (ES6+), HTML5, CSS3, Node.js, PureScript, functional programming, domain-driven development.

### Advanced

React, Angular, TypeScript, C/C++, C#, Java, SQL, Haskell, Elm, Git, object-oriented programming, test-driven development.

### Intermediate

Python, Unity3D, OpenGL & GLSL, Linux.

### Languages

Portuguese, English, German, French, Irish (Gaeilge), Spanish.

## Experience

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|---------------------|---|
| DEZ 2015 – MAR 2017 | <b>Research &amp; Development Intern</b><br><i><a href="#">take</a></i><br>Lead front-end developer of the <a href="#">blip.ai</a> portal, a platform for chatbot creation and management. Ported open source messaging libraries from C# to JavaScript and TypeScript using a test-driven methodology. Took part in the implementation of features for a distributed system. |
| OCT 2015 – MAR 2016 | <b>Freelance Full-stack Web Developer</b><br><i><a href="#">Bitfusion.io</a></i><br>Development of web applications with the MEAN Stack and design of static web pages.   |
| MAR 2014 – JUN 2014 | <b>Undergraduate Researcher</b><br><i><a href="#">VerLab, Universidade Federal de Minas Gerais</a></i><br>Development of an Android prototype application for the generation of 3D models from two-dimensional sketches.  |
| OCT 2013 – MAR 2014 | <b>Undergraduate Researcher</b><br><i><a href="#">VerLab, Universidade Federal de Minas Gerais</a></i><br>Research on RENDERING AND SIMULATION OF UNDERWATER ENVIRONMENTS in the Computer Graphics area. Paper accepted to the ICPR 2014 conference.  |

## Education

- 2013 – Computer Science Undergraduate Student  
*Universidade Federal de Minas Gerais*
- 2014 – 2015 Computer Science Exchange Student  
*Technische Universität Dortmund*
- 2010 – 2012 Technical High School in Informatics  
*CEFET-MG*

## Talks

- 21 OCT 2017 On programs and functions: thinking abstraction  
*InterCon 2017*
- 23 JUN 2017 Functional programming in JavaScript: how and why?  
*JS Experience 2017*
- 30 MAR 2017 Functional programming for applications: thinking correctness  
*19º Encontro Locaweb Belo Horizonte*

## Awards

- 2012 1st place  
*Olimpíada de Algoritmos Hostnet*
- 2011 2nd place  
*Olimpíada de Algoritmos Hostnet*

## Interests

### Front-end web development

Declarative UIs, formal models of UIs, WebGL, rich web experiences and compile-to-JS languages.

### Programming languages

Practical applications of functional programming and advanced type systems.

### Graphics programming

Non-photorealistic rendering, game development, procedural generation, generative art and experimental interactivity.