José A Tula Leyva

✉ joseph.tula@gmail.com • ⌱ jtula

Experienced software developer focused on building accessible products for the web.

Relevant Experience

Remote Freelancer **Cuba**
Full Stack Developer *May 2018–Present*

- Deliver high-quality, robust production code for a diverse array of projects for clients. I specialize in utilizing powerful libraries and frameworks such as Angular, React, and Vue to craft exceptional applications. I have extensive experience in integrating REST and GraphQL APIs to create scalable and efficient web applications. Performing unit and e2e tests with Jest and Cypress.
- Collaborated with backend developers, and UX designers to design, build, test, and improve web apps
- Developing and Deploying APIs in NodeJs, Python and PHP with Symfony and Laravel Frameworks
- Performed quality assurance tests on various sites to ensure cross-browser compatibility and mobile responsiveness.
- Working with teams using agile methodologies, Project Management tools, and git-based services such as BitBucket, Github, and GitLab

FAPESP[1]-University of São Paulo **Brazil**
Software Developer *May 2017–April 2018*

- Developing desktop applications with Python and Qt/Qml/C++ for HUD's
- Developing python scripts for runs experiments with HUD's[2](Vuzix, Epson Moverio, Pupil-labs)
- Keyboard Layout for Tobii Eye Tracker

Remote Freelancer **Cuba**
Software Developer *April 2016–April 2017*

- Developing web applications with React
- Developing and Deploying REST APIs in NodeJs, Python and PHP
- Developing mobile-friendly versions of websites, themes, and plugins

FDTE[3]-University of São Paulo **Brazil**
Software Developer *March 2015–February 2016*

- Prototype development to create a Wearable Gaze Supported Augmented Cognition platform constituted by the head-mounted eye tracker and HUD
- Defining hardware, software architecture, and developing apps to test the platform

Remote Freelancer **Cuba**
Software Developer *January 2014–February 2015*

- Applications for mobile devices(Android)
- Design and build UIs on the PHP Server Platform in a team environment with Symfony
- Optimizing applications for maximum speed and scalability

FAPESP-University of São Paulo **Brazil**
Software Developer *August 2013–December 2013*

- Keyboard Layout for Remote Eye Tracker SMI RED500(C++,OpenGL)

1-São Paulo Research Foundation(http://bv.fapesp.br/pt/pesquisador/668359/jose-antonio-tula-leyva/)
2-Head Up Display
3-Fundação para o Desenvolvimento Tecnológico da Engenharia, São Paulo, Brazil.

UEB Hidroenergía Granma **Cuba**
Software Developer *September 2009–July 2013*

- Developed, maintained, and shipped production code for websites primarily using Symfony framework
- Developed, maintained, and shipped production code for websites using Django framework
- Integrating data storage solutions such as PostgreSQL and MySQL databases

University of Informatics Sciences **Cuba**
Lecturer and Lead Software Developer. *September 2007–July 2009*

Education

University of Informatics Sciences **Havana, Cuba**
Informatic Sciences Engineer *2002–2007*

University of Camaguey **Cuba**
Master's Degree in Applied Computing *2010–2012*

University of São Paulo **Brazil**
Post-grade Courses - PSI5796-3/2, MAC6914-1/1 *2015–2016*

Personal Skills

Libraries Frameworks

- **Coding:** JavaScript, Python, PHP, C++, Java
- **Databases:** PostgreSQL, MySQL, GraphQL, MongoDB
- **Frameworks:** Symfony, Laravel, Django
- **Javascript:** Vue, React, Angular
- **Test:** Cypress, Jest, Playwright
- **Version Control:** Git

Projects

- **FAPESP Project 2017:** *Gaze Interaction for the Internet of Things through Augmented Reality: An Interface to IoT.*(https://goo.gl/jZ5TC2)
- **FAPESP Project 2017:** *Keyboard Layout for Tobii Remote Eye Tracker.*
- **FDTE Project 2015:** *Wearable Gaze Supported Augmented Cognition. Prototype Application for IoT(EPSON Moverio, Vuzix Smart Glasses, Pupil-Labs)*
- **FAPESP Project 2013:** *Keyboard Layout for SMI Eye Tracker.*(https://goo.gl/h1omHb)
- **Master's Degree:** *Time Series Forecasting Algorithm.*

Languages

- **Spanish(native)**
- **Portuguese(professional working)**
- **English(professional working)**

Publications

1- Carlos H. Morimoto, Antonio Diaz-Tula, José Antonio Tula Leyva, and Carlos Eduardo Leão Elmadjian. Eyejam: A gaze-controlled musical interface. In *Proceedings of the 14th Brazilian Symposium on Human Factors in Computing Systems*, IHC '15, pages 113–120, Porto Alegre, Brazil, 2015. Sociedade Brasileira de Computação, Porto Alegre, Brazil. URL: https://dl.acm.org/doi/10.1145/3206343.3206347.

2- Carlos H. Morimoto, José Antonio Tula Leyva, and Antonio Diaz-Tula. Context switching eye typing using dynamic expanding targets. In *ETRA 2018 COGAIN*, Warsaw, Poland, 2018. URL: https://dl.acm.org/doi/10.1145/3148456.3148493.