

Waldir Pimenta — Curriculum Vitae

Personal Information

Name: Waldir Pimenta
Date of birth: 16 February 1986
Citizenship: Portugal; Cape Verde
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Professional Experience

Technical writer

- 🏢 Feedzai (www.feedzai.com) | Porto, Portugal (remote)
- 🕒 *Jul 2021 – present*
- 🔧 Managed product documentation for a real-time fraud detection engine; maintained docs tooling setup and CI pipelines

DevExp and Documentation engineer

- 🏢 Uphold (www.uphold.com) | Braga, Portugal (remote)
- 🕒 *Feb 2020 – Jul 2021*
- 🔧 Maintained API and developer docs; coordinated internal talks and hackathons

Backend developer

- 🏢 Uphold (www.uphold.com) | Braga, Portugal
- 🕒 *Sep 2018 – Feb 2020*
- 🔧 Worked on apps interfacing with crypto and fiat payment networks (ACH)

Desktop software developer

- 🏢 PeekMed (www.peekmed.com) | Braga, Portugal
- 🕒 *Oct 2015 – Jul 2017*
- 🔧 Worked on a 3D surgical planning application based on DICOM medical imaging

Research software developer




- 🏢 Vicomtech (www.vicomtech.org) | Donostia-San Sebastián, Spain
- 🕒 *Mar 2010 – Oct 2010 (Erasmus academic internship)*
- 🔧 Developed a 3D face recognition application in C++ using Qt and OpenCV

Augmented Reality (AR) developer





- 🏢 CCG — Computer Graphics Center (www.ccg.pt) | Guimarães, Portugal
- 🕒 *Jul 2009 – Jan 2010 (research grant)*
- 🔧 Built an experimental AR application with custom 3D modeling and animation

Education





PhD in Computer-generated holography

-  Minho University (www.uminho.pt) | Braga, Portugal
-  Feb 2011 – Jul 2018 (ABD: coursework completed; research discontinued)
-  Thesis: Exploiting Coherence in Rendering for Computer Generated Holography

MSc in Computer Graphics and Artificial Intelligence

-  Minho University (www.uminho.pt) | Braga, Portugal
-  Oct 2008 – Dec 2010
-  Thesis: [Face recognition using 3D structural geometry of rigid features extracted from 2D images](#) (2nd place scientific award, 2011 Fraunhofer Portugal Challenge)
-  Final grade: 17 out of 20

BSc in Computer Graphics and Multimedia

-  Polytechnic Institute of Viana do Castelo (www.ipvc.pt) | Viana do Castelo, Portugal
-  Sep 2004 – Mar 2008
-  Final project: C# image processing software to convert raster topographic maps to vector graphics (SVG)
-  Final grade: 16 out of 20

Publications



Evaluation of the compressibility of Computer-Generated Holograms

[conference poster]

-  W. Pimenta, L. P. Santos (2015)
-  [Eurographics 2015](#)
-  Zürich, Switzerland

Efficient generic face model fitting to images and videos

[journal article]

-  L. Unzueta, W. Pimenta, J. Goenetxea, L. P. Santos, F. Dornaika (2014)
-  Image and Vision Computing 32 (5), 321-334.




A comprehensive taxonomy for three-dimensional displays

[conference paper]

-  W. Pimenta, L. P. Santos (2012)
-  [WSCG 2012](#)
-  Plzeň, Czech Republic




Using AR virtual assistants to teach the traditional leather tanning process

[conference paper]

-  E. Carvalho, G. Mações, W. Pimenta (2011)
-  [CISTI 2011](#)
-  Chaves, Portugal

Face recognition using 3D geometry of rigid features extracted from 2D images

[academic thesis]

-  W. Pimenta (2010)
-  Master's thesis — Minho University
-  Braga, Portugal