M. Marmaduke Woodman, Phd, American father of 2 residing in France, GMT+1,
+33 7 67 77 84 72, mmwoodman@gmail.com, github.com/maedoc

Summary

I'm a curious engineer with a range of interests from Infrastructure-as-Code to robust data modeling, brewing beer to old-school masonry, who enjoys taking things apart (sorry about the VHS player, mom), putting them back together, building afresh (PoC) and maintenance work.

Education

- BS in Neuroscience, Tulane University 2008 (hurricanes Katrina & Gustavo)
- Masters in Computational Neuroscience, LSUHSC, 2009
- PhD in Theoretical Neuroscience, Aix-Marseille University, 2013

Work Experience

- 2008 – 2009 Research assistant at LSUHSC: analysis & modeling of time-delay networks (C, Python, HPC cluster)
- 2009 – 2012 Doctoral student: analysis & modeling of feature emergence via symmetry breaking; development of neuroinformatics platform (TheVirtualBrain, full stack Python with bare metal cluster deployment and operations)
- 2012 – 2013 Scientific programmer: GPU optimizations for neuroinformatics platform TheVirtualBrain
- 2013 – 2015 Research engineer data analysis: machine learning powered UIs for clinical epilepsy (shipped in the AnyWave software)
- 2015 – 2016 Research engineer machine learning: Bayesian model of seizure propagation for clinical epilepsy (now in clinical trial "EPINOV")
- 2016 – 2017 Freelance engineer backend, DevOps (Ansible, ElasticSearch & AWS Aurora migrations, etc) & machine learning (Factr.com, CodeBox)
- 2017 – present Research engineer machine learning, developer & operations ("bare-metal" HPC, clinical data)