

Andrea Cadeddu

Full-Stack Engineer, Developer, Architect and Scientist

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Date of Birth: October 21, 1982
Citizenship: Italy
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Other Languages: (CEFR)
Spanish C1, English C2, French C1, Catalan A2.

Current Position

Principal Software Engineer, Roomit (CWT), since April 2019.

Team lead for real time search Personalization, training and management, project ideation, planning and architecture, development.

Education

Ph.D. Physical Chemistry, Institut de Science et d'Ingénierie Supramoléculaires (ISIS), Université de Strasbourg , 17 December 2012.

M.Sc Material Science, University of Cagliari , 2008.

B.Sc Material Science University of Milan Bicocca, 2006.

Certificates

AWS Certified DevOPS Engineer - Professional

AWS Certified Developer - Associate

AWS Solution Architect - Associate

Skills

AWS, Serverless, JavaScript, Python, Java, Html5, CSS, Node, Angular, React, Vagrant, Puppet, Ansible, Docker, Kubernetes, Adobe AEM/CQ. some Clojure, some Haskell, some Go.

Research Fields

Chemistry as a Natural Language, Machine Learning, Chemical Networks, Nanochemistry, Scanning Tunneling Microscopy, Physical Chemistry, Molecular Dynamics;

Recent Professional Activities

Senior Software Engineer, Roomit (CWT), April 2018 - April 2019. *Training, project ideation, planning and architecture, development. Main product: real time personalization of hotel search services*

Server Central - Turing Group - Director Software Development, Chicago IL, August 2017 - April 2018 *Responsible for Client relationship, team lead, training and management, project ideation, planning and architecture, development. Aws serverless and event-based streaming architectures*

Server Central - Turing Group - Software Architect, Chicago IL, April 2016 - August 2017
Responsible for Client relationship, project ideation, development and training. AWS architectures, HIPAA EMR software

Hyatt.com - Full Stack Developer, Hyatt corporate office, Chicago IL, April 2014 - April 2016.

Chemica - Lead Software Engineer and Post Doctoral Fellow , Northwestern University, Non Equilibrium Research Center, Evanston IL, USA. February 2013 - April 2014.

Scientific Publications

Atomically Precise Prediction of 2D Self-Assembly of Weakly Bonded Nanostructures: STM Insight into Concentration-Dependent Architectures. Small 2015.

Organic chemistry as a language and the implications of chemical linguistics for structural and retrosynthetic analyses. Angewandte Chemie, Volume 126, Issue 31, pages 8246-8250, July 28, 2014

Concentration Dependent Supramolecular Engineering of H-bonded Nanostructures at Surfaces: Predicting Self-assembly in 2D. Journal of the American Chemical Society 2013. doi:10.1021/ja4002025.

Modulating the self-assembly of rigid clicked dendrimers at the solid-liquid interface, Chemical Communications, 2011, 47, 10578-10580.

Self-templating 2D supramolecular networks: a new avenue to reach control over a bilayer formation, Nanoscale, 2011, 3, 4125-4129.

Other Publications

case study for IoT lockers: servercentral.com/case-study-florence

case study for Metra: servercentral.com/case-study-metra/

Last updated: June 20, 2019