



André Naz

R&D Software Development Engineer

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Technical Skills

Programming

C, C++ ★★★★★
Unix shell ★★★★★
Python, R ★★★★★

Networking

TCP/IP ★★★★★
Cisco IOS ★★★★★

Data

Oracle, SQL ★★★★★
Kafka ★★★★★

Languages

French: Native
English: Proficient
(TOEIC 805)
German: Elementary

Strengths

Problem solving, quick learner, initiative, tenacious, organized, team player & committed.

Other Interests

Abroad Experience:
Canada, Germany, Hong-Kong, USA.

Since 2018, recreational programming: Google Hash Code and Code Jam 2018, CodinGame.

Work Experience

- Since Sep. 2018 **R&D Software Engineer**, [Amadeus, Sophia-Antipolis, France](#).
- Travel reservation validation, storage and search/retrieve back-end unit.
 - Involved in service stability and continuous improvement R&D project.
 - C++. Unix back-ends. Test driven development. Continuous integration.
- Dec. 2017 – Aug. 2018 **Postdoctoral Researcher in Computer Science**, [FEMTO-ST Institute, Montbéliard, France](#).
- Extended my PhD-thesis work on distributed modular robotic ensembles.
- Jan. – Jul. 2014 **Computer Science Research Intern**, [FEMTO-ST Institute, Montbéliard](#).
- Designed and developed a logging protocol and a time synchronization protocol in C for Blinky Blocks modular robotic systems. 2.4 KLOC.
- Jun. – Aug. 2013 **Software Engineer Intern**, [Computer Science Department., Carnegie Mellon University, Pittsburgh, USA](#).
- Contributed to add support for the Blinky Blocks platform and the Meld programming language in the VisibleSim simulator. 1.7 KLOC in C++.

Education

- 2014 – 2017 **PhD in Computer Science**, [FEMTO-ST Institute, University of Bourgogne Franche-Comté, Montbéliard, France](#).
- PhD Thesis: “Distributed Algorithms for Large-Scale Robotic Ensembles: Centrality, Synchronization and Self-Reconfiguration”.
 - Designed and implemented 7 tools and 5 algorithms for distributed embedded systems (simulations and hardware) in C and C++.
 - 7 publications in peer-reviewed international conferences and journals. Best paper award at IEEE AINA (out of 556 submissions). Regional finalist in “Ma thèse en 180 secondes”: <https://youtu.be/Pv1eNhVXw1w>
 - Teaching Assistant. Course coordinator: Infrastructure of network security (ASA firewall, WPA). Supervised over 475 hours of labs on programming and computer networking systems for 1st and 2nd year students.
- Fall 2013 **International Exchange Student**, [University of Waterloo, Canada](#).
- Average grade: 89.25%.
 - Artificial Intelligence (including Machine Learning), Computer Security and Privacy, Data Warehousing and Mining.
 - Sample of programming assignments: Simulated annealing, decision tree, Bayes networks, buffer overflow / format string attacks.
 - Data science research project (ISS4E laboratory): Studied the impact of pool pumps on the peak energy consumption in a residential neighborhood.
- 2011 – 2014 **French “Grandes-Écoles” Engineer's degree in Computer Science (equivalent to an international MSc)**, [Grenoble Institute of Technology - Ensimag, France](#).
- Average grade: 16.06/20. Highest honors.
 - Software engineering emphasis. Advanced algorithm courses. Networking and database courses.
 - Sample of projects:
 - Developed a parallel Alpha-Beta-based game bot in C++.
 - Implemented a distributed key certification method for wireless sensor networks in C and evaluated it on hardware nodes.
 - Team-based Agile development of: A Java sub-language compiler in Ada; A printer management app using Java and SQL.