Adrien Cosson
Software Engineer

Clamart, France
+336 98 19 59 60
adrien@cosson.io

🌐 cosson.io   AdrienCos   in adriencosson

Professionnal and Academic Experience

SIIS Lab (Systems and Internet Infrastructure Security) - Research Assistant   Aug 2018 - Aug 2020
- Investigating a new intrusion detection framework for IoT network and embedded environments, in the SIIS Lab under the advising of Pr. Patrick McDaniel.
- Designing Watchtower, a monitoring tool aimed at aggregating low-level OS information of IoT devices.
- Implementing Sentinel, a Linux Kernel Module exposing the hardware information used by Watchtower.

Systems Programming Course - Teaching Assistant   May 2019 - Aug 2019
- Graded assignments and exams for a 200 students course, along with 3 other TAs.
- Recorded 5 hour-long lectures on the course topics.
- Held bi-weekly online office hours to help students with the projects and the course material.

Operating Systems Course - Teaching Assistant   Jan 2019 - May 2019
- Created and graded assignments and exams for a 260 students course, along with 3 other TAs.
- Helped students understand and assimilate the course topics during weekly office hours.
- Received the Outstanding TA Award for my work in the CSE department.

MBDA France - Data Analysis Intern   May 2017 - Oct 2017
- Scraped and parsed worldwide climatic data to build a calculation database.
- Developed a data processing and analysis library for climatic data in a proprietary scripting language, Dynaworks.
- Evaluated the framework against existing climatic models, proving a 20% oversizing of environmental testing criteria.

Education

Pennsylvania State University, USA - M.S. in Computer Science.	**GPA 3.85 / 4.00**	Aug 2018 - Aug 2020
Australian National University, Canberra, Australia - Exchange semester.		Jan 2018 - May 2018
École Centrale de Lyon, France - B.S. in Engineering.	**GPA 3.90 / 4.00**	Sep 2015 - Aug 2020
Lycée Saint Louis, Paris, France - Undergraduate Courses.	**GPA 3.90 / 4.00**	Sep 2013 - Jul 2015

Skills

Programming Languages	**Computer Skills**	**Languages**
C | C++ | Python	Linux Kernel | Cybersecurity	French | English
Go | ARM Assembly	Embedded Systems | Docker	Spanish

Projects & Leadership

Centrale Lyon Cosmos   Sep 2016 - Jul 2017
Software Lead for CTR-02, a supersonic rocket developped by a team of 15 students.

Centrale Lyon Cosmos   May 2016 - Apr 2017
Software Lead of the acoustic measurment unit of SERA-3, an experimental rocket sponsored by the CNES, built by a team of 60 students, and launched from the Kiruna Space Center, Swenden in 2017.

FabLab Centrale Lyon   Sep 2016 - Dec 2017
Co-founder, manager, and treasurer of the Fablab, overseeing a team of 10 students, and managing a budget of 250,000€.

Awards & Scholarships

CSE Department, Penn State   May 2019
Outstanding TA Award

Australian National University   Jan 2018
ANU Excellence Scholarship