

El Hajj Chehade, Saiid

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Education

EPFL

Lausanne, Switzerland

PhD in Computer Science

Sept. 2023 - Present

- Security and Privacy Field. Specializing in Web and Browser Privacy and Security.
- EDIC Fellowship Recipient.
- **Advisor:** Prof. Carmela Troncoso.
- **Relevant Courses:** Advanced Machine Learning and Advanced Topics in Privacy Preserving Technologies.

American University of Beirut

Beirut, Lebanon

B.E. in Computer and Communication Engineering

Aug. 2019 - June. 2023

- Minor in applied mathematics.
- Graduated With High-Distinction. Cumulative GPA **4.23**.
- **Relevant Courses:** Database Design, Advanced data-structures, Algorithms, Statistics, Cryptography, Machine Learning, Networking, Network Security, GPU programming, Deep Neural Networks, Information Theory.
- **Awards:** Dean's Honor List (All semesters), Merit Scholarship (I ranked **3rd** in the Lebanese national secondary education exams).

College Universel

Chehim, Lebanon

High School

Apr 2016 - May 2019

- Passed with High Distinction: 19.03/20 nationally and 3rd rank in Official Exams.
- Awarded scholarship from the Lebanese Prime Minister.

Experience

Visiting Researcher

St. Ingbert, Germany

Secure Web Application Group - CISPA

Jul. 2024 - Sept. 2024

- Worked with Prof. Ben Stock on unsafe parameters and authorization issues in HTTP requests for authenticated sessions.
- Developed a mirrored browser setup for synchronized requests from two controlled user accounts.
- Managed a group of 5 volunteers for large-scale semi-manual experiments.

Research Assistant

Lausanne, Switzerland

SPRING Lab - EPFL

Sept. 2023 - Present.

- Working on the intersection between web-measurement, web-privacy and browsers.

Lead Developer (Full Stack)

Beirut, Lebanon

Test Prep Institute

May. 2022 - Sept. 2023

- Managed team of 3 to build an online educational platform. Helped company implement automated tests and decrease student processing time by 70%.
- Helped design an architecture spanning a secure student assessment environment, adaptive questions based on performance, classroom database system, user access control and live tracking exam statistics. These features allowed the CEO to expand to a larger market of institutions in Lebanon.
- Managed *Git* repository and Deployment on *Heroku* for *Django* Build with embedded *React* frontend through *Webpack*. This helped get 98% up-time on the server.
- Lead strategy development by setting task priorities, and timelines. This helped deploy the initial version in one month.
- Got offer to stay for equity to create the IT department.

Research Assistant

Beirut, Lebanon

American University of Beirut

Sept. 2022 - Jan. 2023

- Worked alongside Prof. Ibrahim Issa on the problem of "Fairness in Machine Learning".
- Formulated the problem statement and the direction of the project.
- Compiled literature review to have an understanding of the research domain standing.
- Prepared a report detailing the taxonomy, directions, and a new definition for Fairness.
- **Academic areas:** Differential privacy, statistics & machine learning, linear algebra, optimization.

Research Intern

Lausanne, Switzerland

SPRING Lab EPFL

Jun. 2022 - Aug. 2022

- Presented a differential DOM tree comparison algorithm and redefined web-breakage problem definition that paved the way for a promising paper endorsed by the lab advisor Prof. Carmela Troncoso.
- Built a pipeline to classify web-page breakages to increase the usability of Ad-blockers: Feature selection, and random-forests.
- Designed crawl experiments and evaluated model. I achieved comparable accuracy to state-of-the-art techniques.
- Published a USENIX Artifact for WebGraph: Smart Ad classifier under supervision of Dr. Sandra Siby.
- Published the first online Ad-block enabled web crawling tool that was recognized by my supervisor.
GitHub: Saiid2001/OpenWPM.
- Created GitHub Crawlers to automate the ad-block history tracking in Python.
- **Technical skills:** python, OpenWPM, sklearn, multiprocessing, sqlite, linux, Git.
- **Academic areas:** Web-crawling, machine learning, networking.

Block-chain Developer Part-time

Remote, UAE

NiftyCraft

Jan. 2022 - Aug. 2022

- Published a smart-contract for NFT tokens for in-game usage.
- Researched and Integrated NFT authentication for exclusive content serving for token holders. Deployed and running in production.
- **Technical skills:** Solidity, reactJs, Git.
- **Academic areas:** cryptography

Research Assistant

Beirut, Lebanon

American University of Beirut

Sep. 2020 - Dec. 2021

- Led a Human Centered Design (HCD) research project with Prof. Hazem Hajj to solve students' social needs in online education.
- Developed a full virtual campus platform on ElectronJS/Flask in the span of 1 year.
- Created a mesh topography conference interface using WEBRTC for up to 6 users.
- Scraped University website for courses information using Python.
- **Technical skills:** WebRTC, ReactJs, javascript, flask, python, docker, Git.
- **Academic areas:** human-centered design, communication, psychology


Full-stack Developer


Beirut, Lebanon


Sila.AI Startup

Sep. 2020 - Mar. 2021

Publications

El Hajj Chehade, S., Hantke, F., & Stock, B. (2025). 403 Forbidden? Ethically Evaluating Broken Access Control in the Wild. *IEEE Security & Privacy*.  github.com/Saiid2001/vsf

El Hajj Chehade, S., Stock, B., & Troncoso, C. (2025). Double-edged shield: On the fingerprintability of customized ad blockers. *USENIX Security*.  github.com/spring-epfl/flfp

El Hajj Chehade, S., Siby, S., & Troncoso, C. (2024). Sinbad: Saliency-informed detection of breakage caused by ad blocking. *IEEE Security & Privacy*.  github.com/spring-epfl/sinbad

Projects and Competitions

Test Prep Institute EduTech Platform

Beirut, Lebanon

Test Prep Institute

August. 2022

www.testprep.institute.com

Final Year Project: Decentralized Private Polling Application in Lebanon for Sensitive Political and Societal Applications

Beirut, Lebanon

American University of Beirut

May. 2023

- Leading a team of 4 to create a deployment-ready system for Lebanese population.
- Using Threshold Homomorphic-encryption for tallying the polls.
- Designing and implementing an expandable semi-centralized structure of server nodes to share authority.
- Using touch-biometric for continuous passive user authenticity and uniqueness: it will help maintain a no-login non-intrusive design.
- Designing and implementing a donation blockchain system to reward poll participants (through a lottery) to increase incentive.
- Summarized 15 papers on the subject, and wrote a 50 page midterm report.

Course Projects

Beirut, Lebanon

American University of Beirut

- DeepDeepBlogger: T5 Pipeline to transform Academic Papers in Deep Learning to Informal Blogs May. 2023
- NMAP attack classifier. (Bash, Python, sci-kit learn, tensorflow) Dec. 2022
- GPU Sparse-matrix Sparse-matrix multiplication (CUDA, C) Dec. 2022
- sEMG to Hand movement MIMO System Identification (A+) May. 2022
- Relational Database to connect students with alumni for internships (A+) May. 2022
- Clustering Students Based on Joint Course Selection Behavior (A) Dec. 2021
- AES-Encryption educational tool (A+) Dec. 2021

IEEE/Robotics Club Hackathon

Beirut, Lebanon

American University of Beirut

Nov. 2018

- Implemented a garbage collection robot using a raspberry Pi, Pi cam, python OpenCV, Arduino servo and motor control.

Teaching

COM-301 **Fall '23, '24**, Teacher Assistant for Introduction to Computer Security

EPFL, Switzerland

CS-523 **Spring '25**, Teacher Assistant for Advanced Topics in Privacy Enhancing Technologies

EPFL, Switzerland

Supervised Students

- Spring '24 **Master Semester Project**, Julien Mettler, Systematic evaluation of logged-in cookie sensitivity EPFL, Switzerland
- Spring '24 **Master Semester Project**, Jonas Gloning, Evaluating the privacy impact of Chrome V3 on web extensions EPFL, Switzerland
- Fall '24 **Master Semester Project**, Pierre-Louis Bravais, Automated agents for web measurements EPFL, Switzerland
- Fall '24 **Master Semester Project**, Siim Markus Marvet, Investigating Server-side Google Tag Manager EPFL, Switzerland

Skills

Programming Python (Pandas, Tensorflow, NumPy, Scikit-learn, Spacy, etc.), C/C++, HTML/CSS, JavaScript, SQL, Java, Matlab, Cuda, Django

Miscellaneous Linux, Shell (Bash), \LaTeX (Overleaf/R Markdown), React, Unity, Figma, Docker, Git.

Soft Skills Hands-on learning, Resourcefulness, Academic writing, Creative mindset, Timeline management, concise presentation.

Certificates

DataCamp Image Processing with Keras in Python | Supervised Learning with Scikit-Learn | Unsupervised Learning in Python | Machine Learning with Tree-based Models

Coursera Neural Networks and Deep learning | Introduction to TensorFlow for ML

Languages

English Professional proficiency IELTS 8.5

French Bilingual Proficiency Delf-B2

Arabic Native Proficiency

Achievements

2023 **Travel Grant**, Privacy-Enhancing Technologies Symposium (PETS) Switzerland

2023 **Fellowship**, Summer Research Institute Switzerland

2023 **EDIC Fellowship**, School of Computer Science, EPFL Switzerland

2019-2023 **7x Dean's Honor List**, American University of Beirut Lebanon

Outreach

RAMP Program

Lausanne, Switzerland

EPFL

Present

Volunteer as Mentor for PhD applicants at EPFL. Responsible for reviewing and giving feedback on CVs and Statement of Purpose letters.

Linux Workshop

Beirut, Lebanon

Robotics Club, American University of Beirut

Nov. 2022

- Volunteered with the Robotics Club at AUB to deliver an introductory Linux workshop.
- Presented in front of 50 students. They demanded a second one to be given soon.

Kids Robotics Workshop

Chehim, Lebanon

Independent Initiative

- Organized local robotics training course for 20 children. I motivated student interest for robotics and computer related fields of study.
- Prepared curriculum, book, and presentations for the course.

First-Aid training

Chehim, Lebanon

"Popular Rescue" local organization

Jul. 2018