Bilal Belli

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PROFILE

Computer Systems Engineer and Master's student in Software Engineering at the University of Montpellier. Passionate about IT and technology, with a strong interest in information security and software security. Actively seeking an internship opportunity that aligns with my interests in these fields.

EDUCATION

- **Higher National School of Computer Science (ESI ex INI)**   Algiers, Algeria
  Computer Systems Engineering Degree   *Sep. 2019 – July 2024*
  - **Engineering Degree Courses**: Systems and Network Security, Networking, Software Architectures, Distributed Systems, Database Management, Signal and Image Processing, Data Analysis, Web Semantics.
  - **Master's Degree Courses**: Documentary Research, Research Methodology, Thesis Preparation.

- **University of Montpellier**   Montpellier, France
  Master's Degree in Software Engineering   *Sep. 2024 – July 2025*
  - **Master's Degree Courses**: Software Analysis, Model-Driven Engineering, AI for Software Engineering, Mobile Application Development.

EXPERIENCE

- **Algeria Partners (Internship)**   Algiers, Algeria
  Full Stack Web Developer   *Aug. 2022 – Oct. 2022*
  - Developed a web application for the Human Resources department's information system.
  - Utilized Node.js, Express.js, and MySQL for the backend, and HTML5 and Bootstrap for the frontend.

- **LIRMM & Pradeo (Internship)**   Montpellier, France
  Final Year Graduation Project   *Sep. 2023 – Aug. 2024*
  - Developed a tool for detecting malicious behavior in iOS applications from binary code.
  - Implemented a decompiler for binary Mach-O files, which involved developing decompilation algorithms and proposing an intermediate representation.
  - Utilized Python for development, Tkinter for the GUI, Otool for disassembling, and Radare2 for binary analysis.

PROJECTS

- **ESI Logement**: Implemented a web application for university administration.
  - Contributed to enhancing the user interface and overall user experience by utilizing the Vue.js framework.

- **Rehlati**: Responded to an offer from the Algerian Ministry of Tourism with our eTourism solution.
  - Collaborated as a solution architect and quality manager on the Rehlati project.

- **Netboost CDN**: It involves implementing a custom Content Delivery Network (CDN) from scratch.
  - Simulated the network infrastructure using GNS3 and multiple virtual machines for servers, including cache servers, origin server, backup server, and NAS server.
  - Used Nginx as a reverse proxy, Varnish for caching, and Bind9 DNS as a DNS service.
  - Created a basic web application using Flask and Tailwind CSS, and deployed it on an Apache2 web server.

- **Trendly (Personal Project)**: The goal is to help users stay up to date with the most popular repositories at present and provide tech news from around the world, including statistics, new tips, and more.

- **Other Personal Projects**: Developed multiple personal tools utilizing various technologies.
  - Web Media Player - List Of Files Converter - Online Resume - Emoji Desktop Keyboard.

PROGRAMMING SKILLS

- **Languages**: : Python, Java, C, JavaScript, HTML5, CSS3
- **Frameworks**: : NodeJs, VueJs, Django, Bootstrap, Tailwind css, Bulma css , ChartJS
- **Databases**: : SQLite, MySQL, Oracle, XML
- **Technologies**: : Git, GitHub, Microsoft 365, Restful API