

FELIACHI AMIRA BELKIS

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EDUCATION

National School of Computer Science Engineering Degree in Computer Science	September 2023 Algiers, Algeria
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WORK EXPERIENCE

Software Engineer Yassir	Jan 2024 – Jun 2024 Palo Alto, California
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- *REST API Development:* Collaborated with the team to design and implement RESTful APIs using Spring Boot.
- *Security Implementation:* Enhanced application security by implementing JWT (JSON Web Token) authentication, safeguarding user data and maintaining secure sessions.
- *Test Automation:* Developed end-to-end automated tests across various environments, achieving 90% code coverage with the JUnit Spring Boot framework.
- *Code Review:* Conducted thorough code reviews to uphold code quality and consistency across the project.
- *Code Quality Assurance:* Ensured that code passed SonarQube analysis with no issues, maintaining high code quality standards.
- *Agile Methodology:* Participated in sprint reviews and planning meetings, following Scrum methodology to ensure efficient project management and delivery.

Deep Learning And Computer Vision Intern Laboratoire LCSI	Sep 2022 – Sep 2023 Algiers, Algeria
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- *Neural network optimization:* Compressed neural networks to reduce computational complexity while preserving performance.
- *Empirical Study:* Conducted empirical studies to evaluate performance loss, proposing optimized parameterizations for improved efficiency.
- *Results of the Study:* Achieved a compression ratio between 80% and 90%, with one of the winning tickets demonstrating a +3.94% improvement in accuracy compared to the original base model.

Web Developer Sirius Net	Apr 2022 – Jun 2023 Algiers, Algeria
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- *GIS Web Application Development:* Developed and deployed GIS web applications using PHP, JavaScript, CSS3, HTML5, GeoJSON, and the Leaflet Maps API, providing dynamic geospatial data visualization.
- *Database Management:* Managed databases using MySQL and SQLite, creating server-side scripts for regular checks and user notifications regarding anomalies.
- *Server Configuration:* Collaborated in configuring the Apache server, optimizing performance and securing web applications.
- *IoT Data Integration:* Worked with the team to investigate and resolve bugs or dysfunctions related to IoT data integration.
- *Data Presentation:* Developed user-friendly interfaces to effectively present various data types, including geospatial and standard information, to admin users.

PROJECTS

Neural Network Reduction | Deep Learnign, Python, Pytorch, TL, KD 

- *CNN Architecture Selection:* Chose various CNN architectures, including ResNet, for the study.
- *Transfer Learning:* Adapted CNN models to different datasets (CIFAR-10, CIFAR-100, MNIST) using transfer learning techniques.
- *Pruning Techniques:* Applied pruning methods to reduce the size of neural networks while preserving their performance.

- *Genetic Algorithm*: Generated a population of pruned subnets to serve as the initial population for a genetic algorithm.
- *Knowledge Transfer*: Utilized knowledge transfer with the initial model acting as the parent to guide the genetic algorithm in finding the optimal subnet.

SKILLS

Languages: Python, Java, C, JavaScript, PHP

Frameworks: Pytorch, TensorFlow, Node js, Spring Boot, Hibernate

Databases: MongoDB, PostgreSQL, Oracle, MySQL, SQL/PLSQL, NoSQL

Development Tools: Git & GitHub, SonarQube, Kubernetes, Docker

Project Management Tools: Jira, Gantt, Slack, Discord

Design Tools: Canva, Figma