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Hedi Ghediri

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Employment

Software Engineer	Capgemini	11/2018 – Present

- Led an XML processing application development. Managed design and implementation of a reactive REST server and a GUI client (JavaFX, Spring Webflux)
- Maintained two web production applications by fixing dozens of bugs and added features (Java, Spring)
  - Integrated React and implemented initial functionalities as a codebase for further features development
  - Upgraded the security stack, migrated 30 vulnerable libraries and implemented CSRF and XSS protections
  - Mentored newcomers to assist in completing tasks and overcoming technical and functional difficulties
  - Collaborated daily with a team of 4 persons to analyze, develop and deliver client requirements
  - Improved client global satisfaction by 20% over the past year

Security Engineer, Intern	Novenci	04/2018 – 10/2018

- Conducted research in mobile security, analyzing threats to measure their impact on the enterprise
- Established a marketable solution providing mobile protection and integration with the enterprise information system using Mobile Device Management technology

Software Engineer, Intern	Atos	06/2017 – 09/2017

- Developed an algorithm predicting vehicles collision in real-time using geofencing techniques
- Integrated the algorithm with a fleet management platform (Java 8, Spring MVC)

Software Engineer, Intern	Sagemcom	06/2016 – 08/2016

- Automated STB firmware generation (saved more than 1 hour of manual work) using Shell scripts
- Implemented a desktop utility providing an ergonomic interface to use the scripts (Python, GTK)

Education

Bordeaux	ENSEIRB-MATMECA	09/2014 – 09/2018

- Master of Science in Computer Science
- A double degree program in cooperation with ENSI (09/2014 – 09/2016)
- Certificate (Minor): Security Engineering

Tunis	IPEIT	09/2012 – 06/2014

- Two-year undergraduate intensive course in mathematics and physics

Software Projects

- **Image Matching:** Implemented comparison algorithms (perceptual hash, sift, structural similarity) to find duplicate ones in a set of 2500 altered images (C++, Python, OpenCV)
- **Bike-Share visualizations:** Graph visualizations of self-service cycle traffic of the world largest cities (up to 100 Gb of data per city) including a heat map of the most common trips (C++, Qt, OpenStreetMap)
- **TLS Sniffer:** Designed a client-server application for network traffic monitoring by sending received packets on the client to the server. Used compression and QoS models for bandwidth usage optimization (Python)
- **RSA:** Implementation using only 16 Kb of memory, supporting hardware-limited systems (C)

Additional

- **Technical Skills:** C/C++, Java, Python, JavaScript, React, Linux
- **Awards:** MDF 2019: Top 15 under 2000; ACM ICPC Tunisian 2016: 2nd team out of 50
- **Languages:** Arabic (native); French, English (fluent)