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Hedi Ghediri

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Employment

Software Engineer	**Capgemini**	**Nov 2018 – Present**

Pôle Emploi (Feb 2020 – Present)
- Collaborated with a cross-functional agile team on the entire software development life-cycle from gathering requirements to shipping code for a 40k users web app (Java 8, Angular 12, Oracle, Kubernetes, Concourse)
- Wrote significant portion of code foundation, allowing team to reuse and rapidly iterate features
- Determined areas of improvement by monitoring regularly production systems using Appdynamics, Grafana and Kibana, boosting performances and reducing errors by at least 60%
- Addressed regular regression bugs by implementing and integrating automated system tests with the pipelines

Ministère de l'intérieur (Nov 2018 – Jan 2020)
- Led an XML processing application development. Managed design and implementation of a reactive REST server and a GUI client (JavaFX, Spring Webflux)
- Spreadheaded and initiated the migration process of a web app with a reach of 200k users monthly to ReactJS front-end, successfully improving the ergonomic and user experience

Security Engineer, Intern	**Novenci**	**Apr 2018 – Oct 2018**

- Conducted research and Established marketable solutions providing mobile protection and integration with the enterprise information system using Mobile Device Management technology

Software Engineer, Intern	**Atos**	**Jun 2017 – Sep 2017**

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

Software Engineer, Intern	**Sagemcom**	**Jun 2016 – Aug 2016**

- Automated Set-Top Box firmware generation (saving more than 1 hour of manual work), using Shell scripts

Education

Bordeaux	**ENSEIRB-MATMECA**	**Sep 2014 – Sep 2018**

- Master of Engineering in Computer Science
- Dual degree in partnership with ENSI (Sep 2014 – Sep 2016)
- Certificate (Minor): Security Engineering

Tunis	**IPEIT**	**Sep 2012 – Jun 2014**

- Preparatory classes: two-year undergraduate intensive course in mathematics and physics

Software Projects

- **Aircraft Tracker:** Authored an Aircraft tracking system by capturing continuously ADS-B signals using a Software Defined Radio, allowing a real-time monitoring for planes (Python, Gnu Radio)
- **Bike-Share visualizations:** Implemented graph visualizations of self-service cycle traffic of large cities (up to 100 Gb of data per city), including a heat map of the most common trips (C++, Qt, OpenStreetMap)
- **RSA:** Built a 16 KB RSA cryptosystem, supporting hardware-limited systems (C)

Additional Information

- **Programming Languages:** Java, C/C++, Python, SQL, JavaScript, Bash
- **Frameworks & Tools:** Java EE, Oracle, Hive, Angular, Cypress, Concourse, Kubernetes, Linux, SAFe
- **Awards:** Meilleur Dév de France 2019: Top 15 out of 2000; ACM ICPC Tunisian 2016: 2nd team out of 50
- **Languages:** Arabic (native); French (fluent), English (working knowledge)