

EDUCATION

- **National Institute of Applied Science And Technology** Tunis, Tunisia
Bachelor of Software Engineering *Sept. 2012 – Sept. 2017*

EXPERIENCE

- **INSAT Android Club** Tunis, Tunisia
Vice President *Sept 2015 - Aug 2016*
 - **Apache Beam:** A unified model for defining both batch and streaming data-parallel processing pipelines.
- **KB2I** Tunis, Tunisia
Intern Software Developer *Jul 2016 - Sept 2016*
 - **Configuration Portal:** A web portal created using Angular2 to allow the configuration and maintenance of Raspberry Pi endpoints.
 - **Configuration Service:** Bulk data processing and injection service from Hadoop to Cassandra and provides a thin REST layer on top for serving offline computed data online.
 - **Workflows:** Dataduct an open source workflow framework to create and manage data pipelines leveraging reusable patterns to expedite developer productivity.
 - **Data Collection:** Designed the internal survey and crowd sourcing platform which allowed for creating various tasks for crowd sourcing or embedding surveys across the Coursera platform.
 - **Dev Environment:** Analytics environment based on docker and AWS, standardized the python and R dependencies. Wrote the core libraries that are shared by all data scientists.
 - **Data Warehousing:** Setup, schema design and management of Amazon Redshift. Built an internal app for access to the data using a web interface. Dataduct integration for daily ETL injection into Redshift.
 - **Recommendations:** Core service for all recommendation systems at Coursera, currently used on the homepage and throughout the content discovery process. Worked on both offline training and online serving.
 - **Content Discovery:** Improved content discovery by building a new onboarding experience on coursera. Using this to personalize the search and browse experience. Also worked on ranking and indexing improvements.
 - **Course Dashboards:** Instructor dashboards and learner surveying tools, which helped instructors run their class better by providing data on Assignments and Learner Activity.
- **Lucena Research** Atlanta, GA
Data Scientist *Summer 2012 and 2013*
 - **Portfolio Management:** Created models for portfolio hedging, portfolio optimization and price forecasting. Also creating a strategy backtesting engine used for simulating and backtesting strategies.
 - **QuantDesk:** Python backend for a web application used by hedge fund managers for portfolio management.
- **Georgia Institute of Technology** Atlanta, CA
Research and Teaching Assistant *Jan 2012 - Dec 2013*
 - **Research Assistant - Machine Learning:** Research on machine learning for portfolio hedging and replication algorithms. Modeling low-risk & continuous-return strategies. Developed the python library QSTK.
 - **Teaching Assistant - Computational Investing:** The online course on Coursera, had more than 100,000 students enrolled. It was featured on the 11 Alive News and the Atlanta Journal Constitution. Involved in creating assignment, exams and conducting recitation sessions. Also taught the on-campus version of the course.

PROJECTS

- **The Abstraction:** Abstraction is a Virtual Reality game to explore Tunisia in a new way I have developed with A team of 5 during Orange summer challenge.
- **Book Shop:** A Book shop created using Spring frameworks and Hibernate.
- **Augmented Reality Card Game :** Augmented Reality card game developed using Unity3d
- **AR Karaoke:** Karaoke application created using Unity3d that uses green screen to change the background and allow the use of animated backgrounds.

PROGRAMMING SKILLS

- **Languages:** Java, C#, Javascript, Groovy, C++
- **Technologies:** JEE, MEAN, Angular2, Spring, Android, Unity3d, .Net
- **Other Skills:** Version Control (Git), Team work, Agile, Clean Coding