

NIDHAL SATOURI

ANALYTICS SPECIALIST | SOFTWARE ENGINEER | FULBRIGHT ALUMNUS

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EDUCATION

BOWLING GREEN STATE UNIVERSITY (BGSU)

Master of Science, Analytics [GPA: 4/4]

Scholarship: Fulbright Foreign Student Program

Bowling Green, OH - USA

Aug 2015 – Aug 2016

NATIONAL INSTITUTE OF APPLIED SCIENCE AND TECHNOLOGY (INSAT)

National Engineering Diploma, Software Engineering [GPA: 3.65/4]

Minor: Management of Information Systems

Tunis, Tunisia

Sep 2010 – Jun 2015

SKILLS

METHODS & CONCEPTS

- **Programming:** Algorithms, OOP, Design Patterns, Continuous Integration, SCRUM
- **Analytics:** Data Modeling, ETL, Predictive Modeling, Statistical Analysis, Time Series Analysis, Association Rules, A/B Testing, Hypothesis Testing

SOFTWARE TECHNOLOGIES

- **Programming:** Python, R, SQL, Java, C++, Shell Script, Git
- **Big Data:** Hadoop (MapReduce), Spark, Impala, Hive, Cassandra, AWS
- **Analytics:** MS Excel, SAS-EMiner, Tableau, Talend (DI/ESB)
- **Mobile/Web:** iOS, PHP, JavaScript, J2EE, .NET

RELEVANT PROJECTS

ANALYTICS RESEARCH PROJECT – BGSU

- Led exploratory data analysis on 2 Parkinson's tele-monitoring (dysphonia) datasets using R
- Implemented and optimized predictive models like Logistic Regression, Decision Tree, Gradient Boosting and Neural Networks to simplify Parkinson's diagnosis using SAS-EMiner
- Evaluated the models' performance and compiled the analysis results in a research paper

Sep 2015 – Apr 2016

BIG DATA PROJECT – BGSU

- Cleansed 40 years worth of data (15 billion observations) from the US National Climatic Data Center on Cloudera CDH 5.5
- Automated the data retrieval, consolidation and loading into Hive Metastore and HDFS (Hadoop) using a shell script
- Coded SQL queries in Impala and built Linear Regression and Time Series models in Python using the following libraries : numpy, pandas, scipy, matplotlib, statsmodel, impyla

Mar 2016 – Apr 2016

DATA MINING PROJECT – BGSU

- Cleaned and transformed 10 years of road accidents' data from the Transportation Safety Board of Nebraska using SAS-EMiner and Excel
- Run statistical analysis, predicted the probability of an accident given the city section characteristics and generated Association Rules about co-occurring factors leading to accidents
- Visualized the insights in Tableau and delivered recommendations for a better safety plan

Mar 2016 – Apr 2016

WORK EXPERIENCE

BULLDOZER INC Web Development Intern

- Implemented the backend of a professional social network dedicated to the fashion industry
- Architected and built a RESTful API that will be consumed by back-office and mobile applications
- Learned and practiced the SCRUM agile method

Tunis, Tunisia

Feb 2015 – May 2015

ORANGE Mobile Development Intern

- Performed a market research on photo editing and sharing mobile apps
- Led the development of a social all-in-one iOS app (Selfie Maker) offering advanced features like Voice Recognition, Face Detection, and Photo Editing
- Contributed to the launching campaign by building the landing page, and helped in shooting a promotional video

Tunis, Tunisia

Jul 2014 – Aug 2014

FLAG ENGINEERING Mobile Development Intern

- Built an m-commerce iOS app for a retail client providing the main following functionalities: products catalogue, user account setting, cart management, and payment
- Created a set of PHP/MySQL web services

Djerba, Tunisia

Jun 2013 – Aug 2013

PROFESSIONAL DEVELOPMENT

- Python for Data Science – **DataCamp** [MOOC] Aug 2016
- Big Data on Amazon Web Service Quest – **QwikLabs** [MOOC] Mar 2016
- SAS Analytics Conference (Las Vegas, USA) Oct 2015
- Microsoft Technology Associate: Database Administration Fundamentals – **Microsoft** [CERTIFICATION] Jun 2011

VOLUNTEER EXPERIENCE

NETLINKS CLUB – INSAT *Technical team member*

Tunis, Tunisia

- Led iOS development trainings and projects
- Participated in organizing national technology events (NetlinksDay 2012, 2013 and 2014)

Jan 2012 – Sep 2014

TUNISIAN RED CRESCENT *Volunteer and First-Aider*

Ariana, Tunisia

- Helped in collecting donations for deprived families
- Participated in road safety campaigns

Sep 2012 – Feb 2015

LANGUAGES

English(Fluent), French(Fluent), Arabic(Native), German(Basic)

INTERESTS

Coding & Data Science challenges, Computer Games, Graphic Design, Soccer, Basketball, Hiking