Haluk Dogan

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Education

PhD	Computer Science	University of Nebraska-Lincoln, NE, USA	2018 – 2021
MS	Computer Engineering	Bogazici University, Istanbul, Turkey	2011 – 2013
BS	Computer Science	Istanbul Bilgi University, Istanbul, Turkey	2006 – 2010

Experience

➤ **Machine Learning Scientist**   **University of Nebraska-Lincoln, NE, USA**   **Aug 2013 – Current**

- Built machine learning models with a focus on graphical models and Bayesian statistics
- Built discriminative and generative deep learning architectures
- Applied design patterns (Builder, Decorator, Strategy) and event driven programming to maximize development productivity
- Research resulted in 6 journal/conference publications
- Technologies
    - Programming Languages: Python, R, Java, Bash, Anglican, Pyro
    - Deep Learning Frameworks: Tensorflow, PyTorch
    - Machine Learning and Numeric Libraries: Scikit-learn, Pandas, Numpy, Scipy, pyAgrum, Orange
    - Data Visualization: Matplotlib, ggplot2, Seaborn
    - Version Control: Git
    - Virtualization: Docker, Google Cloud Platform
    - Development and Runtime Environment: Linux, Emacs, Open Science Grid

➤ **Co-founder/Python Developer**   **Roomkita, Istanbul, Turkey**   **Aug 2013 – Aug 2019**

- Backend development for a travel agency website using Model-View-Controller (MVC) design pattern
- Developed machine learning models to improve search results that prioritize user preferences based on user clicks
- The company was featured in tnooz, a global provider of news related to travel technology
- Technologies
    - Programming Languages: Python
    - Database: PostgreSQL
    - Version Control: Git, Subversion
    - Web Server: NGINX
    - Development and Runtime Environment: Linux, Emacs

➤ **Software Developer**   **Istanbul Bilgi University, Istanbul, Turkey**   **Nov 2010 – Aug 2013**

- Developed software for research activities in the department
- Participated in the development and maintenance of college website

➤ **Java Software Developer**   **i2i Systems, Istanbul, Turkey**   **Mar 2010 – June 2010**

- Converted billing rules defined by analysts in plain text to LL grammars

- Developed a program that parses plain text using defined grammars and update billing database

- Software was incorporated into routine operations of the billing department to facilitate billing

- Technologies
  - Programming Languages: Java
  - Libraries: Spring Framework, Hibernate ORM
  - Database: Oracle
  - Version Control: Subversion
  - Build System: Maven
  - Development and Runtime Environment: Linux, Eclipse, Cron

➤ **Data Scientist**   **GNA, Istanbul, Turkey**   **Aug 2009 – Mar 2010**

- Performed Extract, Load, Transfer operations

- Built data warehouse to prepare weekly business reports

- Added custom features to an open source business intelligence tool
  - Programming Languages: Java
  - Business Intelligence Tool: Pentaho
  - Database: Oracle
  - Build System: Maven
  - Development and Runtime Environment: Linux, Oracle Software Developer

➤ **Java Developer**   **Aradiom, Istanbul, Turkey**   **Mar 2008 – Jun 2008**

- Developed backend/frontend of a regex editor to create cron jobs
  - Programming Languages: Java
  - Libraries: JBoss Seam Framework
  - Version Control: Subversion
  - Development and Runtime Environment: Linux, Eclipse, Cron