

Haluk Dogan

539 N 24th St. Apt. 19, Lincoln, NE, 68503
 +1 531-218-8301
 hdogan@vivaldi.net
 https://haluk.github.io
 haluk

Education

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| 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 2018 – 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
- 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