Email: hdogan@vivaldi.net

Mobile: +1 (531) 218-8301

Haluk Dogan

https://haluk.github.io/

EDUCATION

University of Nebraska-Lincoln

Lincoln, NE

August 2018 - May 2020 (Expected)

Doctor of Philosophy in Computer Science, (PhD Candidate)

agust 2010 Mag 2020 (Eupeotes

Bogazici University

Istanbul, Turkey

Master of Science in Computer Engineering

Istanbul, Turkey

Bachelor of Science in Computer Science

September 2006 - June 2010

September 2011 - June 2013

EXPERIENCE

University of Nebraska-Lincoln

Lincoln, NE

Teaching and Research Assistant

Istanbul Bilgi University

Aug 2018 - Present

- Teaching: I am the head TA of "Introduction to Data Mining" and "Python Programming for Data Science" courses offered to undergraduate and graduate students. I led recitations, lab sessions, and graded weekly assignments.
- Research: I work on machine learning with focus on graphical models and Bayesian statistics. I have 9 journal, conference, book chapter, and preprint publications. I develop my programs for my research in Python, R, and Java. I use various third-party programming libraries including but not limited to TensorFlow and Scikit-learn. I use Git and Docker to share my programs and environment for reproducibility. I use UNL's supercomputers and GCP.

Roomkita

Istanbul, Turkey

Co-founder

Aug 2013 - Present

Developer: I helped to develop the website in Django. I also implemented a machine learning module to amend search
results. The company is featured in tnooz, a global provider of news related to travel technology.

Istanbul Bilgi University

Teaching Assistant

Istanbul, Turkey

- Nov 2010 Aug 2013
- **Teaching**: I was the head TA of programming, taught in **Scheme**, probability and statistics courses. I led lab sessions and graded quizzes, assignments and exams.
- Software Developer: I helped to build the engineering faculty website. Website was in Wordpress but I made customizations in PHP to the CMS and the theme according to our needs.

i2i Systems

Istanbul, Turkey

Mar 2010 - June 2010

 $Software\ Developer$

I developed a command-line **Java** program for PL/SQL developers in the company. Business analysts were preparing the billing rules in spreadsheets. Spreadsheets were unstructured and contained references. Therefore they were not suitable for parsing them as a delimited file. I built the grammar of billing rules using **JavaCC** and developed its parser. I used **Spring Framework** and **Hibernate** to insert rule formulas as a text into the respected database tables. I used **Maven** to create a jar file of my program. I also create a **cron** job to run my program in a regular basis.

GNA

Istanbul, Turkey

Data Scientist

Aug 2009 - Mar 2010

My responsibilities were data staging, data cleaning, and prepare weekly reports. I used **SQL**, **Oracle SQL Developer** in my daily routine tasks.

Aradiom

Istanbul, Turkey

Software Developer

Mar 2008 - Jun 2008

I designed and implemented backend/frontend regex editor to create cron jobs. This was designed for non-technical users. I used **JBoss Seam Framework**.

PROJECTS

- Side Projects: Implemented and designed a distributed application that sends SMS messages by connecting to SMSC via SMPP by using Apache Thrift RPC Framework
- Course Projects: Machine learning algorithms, IO-efficient algorithms, string matching algorithms, data compression algorithms

PROGRAMMING SKILLS

- Languages: Java, Python, R, Clojure, Lisp, Scheme, SQL
- Technologies: Git, Docker, Maven, Leiningen, Make, Linux, AWK, sed, Emacs