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# Haluk Dogan

https://haluk.github.io/

**EDUCATION** 

University of Nebraska-Lincoln

Lincoln, NE

Doctor of Philosophy in Computer Science, (PhD Candidate)

August 2018 - May 2020 (Expected)

Bogazici University

Istanbul, Turkey September 2011 – June 2013

Master of Science in Computer Engineering

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Istanbul Bilgi University

Istanbul, Turkey

Bachelor of Science in Computer Science

September 2006 - June 2010

EXPERIENCE

## University of Nebraska-Lincoln

Lincoln, NE

Teaching and Research Assistant

Aug 2018 - Present

- **Teaching**: I was the head TA of a programming course offered to undergraduate and graduate students in **Python**. 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

Istanbul, Turkey

Teaching Assistant

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

Software Developer

Mar 2010 - June 2010

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, Linux, AWK, sed, Emacs