

Haluk Dogan

<https://haluk.github.io/>

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EDUCATION

- **University of Nebraska-Lincoln** Lincoln, NE
Doctor of Philosophy in Computer Science (PhD Candidate) August 2018–May 2021
- **Bogazici University** Istanbul, Turkey
Master of Science in Computer Engineering September 2011–June 2013
- **Istanbul Bilgi University** Istanbul, Turkey
Bachelor of Science in Computer Science September 2006–June 2010

WORK EXPERIENCE

- **University of Nebraska-Lincoln** Lincoln, NE
Machine Learning Scientist Aug 2018–Present
 - **Teaching:** I was the head TA of “**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–Aug 2019
 - **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
Research Scientist 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, Maven, Leiningen, Make, Linux, AWK, sed, Emacs