

KONSTANTIN KOTSEV

Address: Ribaritsa 17, Sofia, Bulgaria

Mobile: 0882525992 ◊ konstantinkotsev@gmail.com

EDUCATION

University of Edinburgh

June 2015

BEng in Computer Science

First Class Honours

Sofia University

September 2010 - June 2011

BSc Software Engineering

EXPERIENCE

Majio

June 2014 - September 2014

NLP Developer Internship

Sofia, Bulgaria

Researched and developed natural language processing (NLP) components of the system. Main tasks included:

- Prototyped initial GATE pipeline for rule based extraction of education information from CVs.
- Researched and tested Name Entity Recognition components for the system to improve metrics on a corpus of test data.
- Developed web scrapers in Python for extraction of data for NLP tasks.
- Assisted with the curation of a corpus of annotated CVs and Job Offers.

University of Edinburgh

May 2015 - July 2015

Research Assistant

Edinburgh, United Kingdom

- Analyzed spacial temporal data in R and applied unsupervised machine learning to classify polluted areas in urban environments.
- Developed a custom pollution visualization tool in R Shiny.
- Curated and maintained a corpus of environmental data to be used in future analyses.

TECHNICAL STRENGTHS

Computer Science

Algorithms and Data Structures, Natural Language Processing
Machine Learning, Probability Theory and Discrete Mathematics

Computer Languages

Java, Python, R, SQL, Hadoop

OS

Unix

Software Engineering

Object-oriented programming, Git

Technical Documentation

LaTeX

PROJECTS

MyQoE: Informatics Honours Project. This individual project involved elements of both practical experimentation for data gathering using a new sensor for pollution measurements, writing an Android App for data capture, and use of statistical/ML techniques for data analysis. A GitHub repository containing the collected corpus of data, code, and documentation was created for future students to reuse and quickly start work on the project.

System Design Project: Worked as part of a team on prototyping an autonomous football robot using Java. Worked as part of the implementation team to develop the bluetooth communication system

and the robot movement system. Created a unique movement system that allowed the robot to move efficiently in every direction. Participated in weekly performance reviews and conducted code reviews.

Time Table Application: Developed an Android Application that would allow the user to quickly access lecture schedule and view additional information about courses.

Fractal Flames Application: Worked as part of a small team on developing a fractal generator in Java. The program won award for Best Graphical Application in the OOP course competition.

LANGUAGES

English (Fluent)

Bulgarian (Native Speaker)

INTERESTS

I enjoy traveling to new countries and hiking in the mountains. In my free time I enjoy doing sports and cooking.