KONSTANTIN KOTSEV

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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.