Paula Gombar

Personal Information

Address:	Brace Domany 6, 10 000 Zagreb, Croatia
Email & Phone:	gombarica@gmail.com, +385 91 765 9222
Git:	github.com/pgombar
Languages:	Croatian (native), English (level C1), Spanish (level B2)

Education

University of Zagreb, Zagreb, Croatia

M.Sc & B.Sc. in Computer Science — September 2012 – July 2017 (expected)

Bachelor Thesis: *Contextual Sentiment Analysis of Croatian Expressions*
Technologies used: Python, scikit-learn.

Work Experience

Noom, Inc., New York, New York

Software Engineer Intern — July 2015 – October 2015

Built a web application to improve meal logging experiences by clustering and processing users' food suggestions for multiple languages. Devised a new way of clustering existing data for easier processing.
Technologies used: Python, Flask, SQLAlchemy, Jinja2.

X.FER, Zagreb, Croatia

President, Problem setter and lecturer — October 2012 – current

X.FER is an informatics student association and its main project is the course Competitive Programming. Responsible for leading the association, giving lectures, setting up homework assignments and exams designed to help students learn algorithms and their application in solving complex problems.

Faculty of Electrical Engineering and Computing, Zagreb, Croatia

Student assistant — October 2012 – February 2014

Helping students with laboratory work and general understanding of topics covered in courses Algorithms and Data Structures, Fundamentals of Electrical Engineering and Electronics 1.

Programming Competitions

Croatian nationals (DMIH)	May 2006 – May 2010
Croatian Open Competition in Informatics (COCI)	October 2006 – April 2011

Skills

Advanced:	C, Java
Working knowledge:	C++, Python, Git, Cabal, Linux
Basic:	SQL, JavaScript, PHP, Haskell

Publications

TakeLab at SemEval-2016: Using a Genetic Algorithm Based Ensemble

Paper submission for Task 6: Stance Classification in Tweets. — October 2015 – February 2016

In a team of 9, built a system for the detection of stances in tweets. The system uses an ensemble of learning algorithms, classifiers, lexical and task-specific features, and is fine-tuned using a genetic algorithm. The system ranked 3rd among the 19 systems submitted to this task.
Technologies used: Python, scikit-learn, Git.

Notable projects & courses

Bachelor Project: CROntroverza

A project from the world of Natural Language Processing. — October 2014 – February 2015

Developed a system that analyzes Croatian news articles, clusters them into groups using the k-means clustering algorithm and determines the level of controversy by processing the comments.
Technologies used: Haskell, Cabal, Git, Support Vector Machine.

Introduction to Java Programming Language

A course on Java and all things related. — March 2014 – July 2014

Developed desktop, Web and Android applications, built a custom Paint and Web server, implemented the MVC pattern on a blog system. For the final project, developed a desktop implementation of a multiplexer tree.
Technologies used: Java, Swing, JSP, Apache Tomcat, Git, ANT, MySQL.

Hobbies

Travelling, Reading, Natural Language Processing, Machine Learning, Dogs