



Dan Gheorghe Haiduc

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Cluj-Napoca, Romania

● WORK EXPERIENCE

01/05/2017 – 30/08/2018

BACK-END DEVELOPER – Personal project: Algorithmic trading

I created a personal algorithmic trading system for cryptocurrency, based on the book "Systematic Trading" by Robert Carver. It involves:

- RPC communication to/from cryptocurrency wallet applications
- API communication to/from trading services
- Accounting using SQLite database and ORM models in SQLAlchemy
- Data processing, statistics, and analysis using Pandas (Python)
- In-depth testing and property-based test generators (using Hypothesis)
- Self-guided project management, using a self-hosted instance of Phabricator
- Knowledge of operations security principles
- Knowledge of basic accounting

Most of the project is private so far, but I released the component handling wallets as free software:

<https://github.com/danuker/piggies>

Cluj-Napoca, Romania

01/06/2015 – 30/04/2017

WEB DEVELOPER – RadarServices GmbH

I helped develop internal tools for managing security vulnerabilities.

The work required strict security and privacy for client data, and modular servers communicating through queries.

We worked with Ruby-on-Rails, PostgreSQL, and JQuery.

I learned a lot about development workflows: the importance of keeping the team up to date (both using stand-up meetings and the JIRA ticketing system), asking for help when needed, and becoming proficient with Git.

I was also entrusted with performing code review.

Vienna, Austria

18/07/2014 – 20/05/2015

TRACKING DATA ANALYST – Gameloft SA

I worked on querying, transforming, and presenting data reports related to time-dependent business metrics.

I used Python, Numpy, Pandas, Matplotlib, and MS Excel.

These tools needed to be integrated with an in-house database for querying data.

We performed time-series analysis of customer churn and retention, engagement, and spending trends.

Cluj-Napoca, Romania

10/03/2014 – 17/07/2014

JUNIOR WEB DEVELOPER – Spyhce

I helped with the development and testing of a Django, PostgreSQL and AngularJS based project.

Cluj-Napoca, Romania

01/07/2013 – 30/09/2013

ERASMUS INTERNSHIP – Nokia Solutions and Networks

I helped with maintaining, testing, and developing an internal web tool, written in CakePHP, and maintaining the testing system which was based on Jenkins CI, with components in Python.

Budapest, Hungary

● EDUCATION AND TRAINING

01/10/2011 – 10/07/2014 – Cluj-Napoca, Romania

BSC IN COMPUTER SCIENCE – Universitatea Babeş-Bolyai

- Software engineering: OOP, design patterns, testing, basic project management, web development
- Artificial Intelligence: functional & logic programming, search and optimization, machine learning, probability and statistics
- Data structures and algorithms: data structures, complexity analysis
- Databases: MySQL, MS SQL and Transact-SQL
- Operating systems: C programming, multithreading, networking

EQF level 6

● LANGUAGE SKILLS

Mother tongue(s): ROMANIAN

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

- Can easily collaborate with others - gained by doing professional work in teams
- I enjoy working in a multicultural environment - I worked in foreign countries (Hungary and Austria), and on Freelancer projects
- Fluent in English - In addition to having a Cambridge FCE certificate, I use English daily (technical as well as for leisure).

● JOB-RELATED SKILLS

Job-related skills

- Skilled in Python, backed by personal projects and work experience.
- Passionate about machine learning, data processing and analysis. I completed the "Programming a Robotic Car" class on Udacity, and the theoretical part of "Machine Learning" on Coursera (see attached certificates). Also, during college, I worked in a team of 5 students creating a robot that would attempt to serve drinks to people (UBBots 2014).
- Skilled in Linux (Bash scripts, utilities, configuring, debugging) - used at work, as well as in 10 years of personal use, in addition to work and school experience
- Skilled in the Git versioning system
- I use the Gimp and Blender graphics apps personally.
- Some experience in Java, C++, and C (from programming classes in college), and basic skills in Javascript (jQuery), from my web development experience.