

## Victor Alexandru Darvariu

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 victor.darvariu.me

 victordarvariu

I am a highly motivated computer science student and junior software engineer, with good analytical skills and an award-winning academic record. Interested in machine learning, algorithms and computer security; I am able to leverage various technologies and paradigms to bring business value, whilst communicating efficiently with team members and stakeholders.

## Education

**University of Birmingham, MSci Computer Science with Industrial Year** **2013 – 2018**

Expected First Class Honours (13-14: **84%** Year Mark, 14-15: **85%**, 15-16: **88%**)

- **Notable modules:** Java Team Project, Software Design Study, Machine Learning, Artificial Intelligence, Software Systems Components, Computer Systems&Architecture, Software Engineering, Operating Systems, Networks
- **Awards:** “Best First Year MSci Student”, “Best Second Year MSci Student” prizes awarded in 2014, 2015
- **Extracurricular activities:** various tutoring experience, administrating website of University’s racing club

## Work Experience

- **Industrial Placement, Security Division, Morgan Stanley** **Jun 2016 – Jun 2017**
  - **Project 1:** Architected and built a contextual authentication system, consisting of an AngularJS front-end, RESTful Java middle tier, SQL data store, and machine learning based Python computational engine. Enabled detection of anomalies in client logins, configuration of rules to act on said anomalies, and visualization tools.
  - **Project 2 (Ongoing):** Building a FIDO U2F service and integrating with existing infrastructure, bringing frictionless second factor authentication to client systems.
- **Web Developer, Careers Network, University of Birmingham (Part-time)** **Jun 2015 – Jun 2016**
  - Saved over 100 man-hours by automating content migration / review with Python scripts
  - Built user surveys, analyzed data, and improved presentation of web content
- **Research Assistant, Data Science Lab, University of Birmingham** **Jul 2014 – Sep 2014**
  - Successfully absorbed network science concepts, and contributed to ongoing research work
  - Enhanced legacy codebase, deployed web platform, provided comprehensive software documentation

## Key Technical Skills

- Java enterprise development: Core Java, Spring, Apache CXF, Jetty, Hibernate - intermediate
- Python: data analysis/machine learning packages, scripting & task automation - intermediate
- Web technologies:
  - HTML/CSS/JavaScript+AngularJS - intermediate
  - Angular2, TypeScript, and node.js - basic
- Other programming languages: prior exposure to C++, C, Haskell, OCaml
- Database systems: SQL - intermediate, MongoDB - basic
- Software development practices: refactoring, object-oriented design, TDD, BDD, version control
- Good understanding & exposure to Unix fundamentals; basic shell scripting

## Interests & Achievements

- Completed several MOOCs relating to data science: Machine Learning, Elements of Statistical Learning, Mining Massive Datasets - Stanford University, Neural Networks – University of Toronto
- Recently became interested in competitive programming: solved 50+ algorithmic problems on UVa Online Judge
- “Personal Skills Award” - awarded in June 2015 by the university, as formal recognition for extra-curricular activities
- Semi-finalist of the IBM Universities Business Challenge 2014
- Languages: English, Romanian – native level proficiency; French – limited working proficiency; German - basic

## About Me

I have a general interest in the arts, having acted in a theatre group for about two years, which helped me develop communication and collaboration abilities. I enjoy cinematography, reading novels and studying foreign languages in my spare time. I am also a very active person – I lift weights and go running when I get the chance.