Buchares, Romania

EDUARD C. STANILOIU

https://github.com/edi33416

WORK EXPERIENCE

POLITEHNICA University of Bucharest, Department of Computers

Teaching Assistent — **November 2018 - Present**

TA for the following courses: Introduction to Operating Systems, Intro to Programming, Operating Systems, Computing Systems Architecture.
Developed a new course with a focus on memory safety, metaprogramming and interoperability.
Develop, update and review course and lab materials.
Coordinate the infrastructure team of multiple courses.
Propose and coordinate bachelor thesis and master dissertations.

Software Engineer — **D Language Foundation** — **October 2016 - Present**

Work on the development of the compiler, runtime and standard library of the D programming language.
Presented my work on multiple occasions at DConf, the annual language's conference.
For the past years, I have been a mentor for the Foundation's GSoC like program, SAoC: https://dlang.org/blog/category/saoc/

Software Engineer, Intern — **Bloomberg LP Lugano** — **June 2018 – September 2018**

Worked on designing and implementing and automating a hybrid Mesos Cluster for batch workflows processing.

Software Engineer, Intern — **Bloomberg LP London** — **July 2017 – September 2017**

Worked on designing and implementing a visual regulatory rules editor for the IRS team.

Software Engineer, Intern — **Bloomberg LP London** — **June 2016 – September 2016**

Worked on designing and implementing a database parallel querying solution for a Bloomberg Terminal function

Software Engineer, Intern — **Intel Corporation Bucharest** — **December 2015 – June 2016**

Intel Software Guard Extensions (SGX) Development

Software Engineer, Intern — **Microsoft Redmond** — **June 2015 – September 2015**

Enterprise & Security DEV R&D.

Software Engineer, Intern — **IXIA Bucharest** — **June 2014 – December 2014**

C / C++ Developer

- Changed the adding of simulated users logic which lead to a gain in receiving throughput
- Caught and fixed race conditions that caused duplicate operations calls which caused crashes
- Implemented TCP Statistics feature
- Bug fixing in both user-space and kernel-space

EDUCATION

Politehnica University of Bucharest, Faculty of Automatic Control and Computer Science — **October 2018 - Present**

- Pursuing a Ph.D. in Computer Science
- My research interests include programming languages, security and vulnerability detection, code and binary analysis, supply chain attacks, distributed systems, IoT and computer vision.

Politehnica University of Bucharest	**Faculty of Automatic Control and Computer Science**	**October 2016 – September 2018**

M. Sc. in Computer Science
GPA: 5 out of 5

Politehnica University of Bucharest	**Faculty of Automatic Control and Computer Science**	**October 2012 – September 2016**

B. Sc. in Computer Science
GPA: 4.8 out of 5

Cisco's PUB Academy	**CCNA 3**	**November 2014 – Feb 2015**
Cisco's PUB Academy	**CCNA 2**	**March 2014 – June 2014**
Cisco's PUB Academy	**CCNA 1**	**November 2014 – Feb 2014**

Technical Experience

Projects

Dlang - Open source contributor for the standard library, runtime and reference compiler of the D programming language [0].

DSS – For the past four years I have organized the D Summer School (DSS) at UPB. DSS is a D programming language bootcamp for students, during which many make their first Open Source contribution [1].

River – An Open Source framework that uses AI and concolic execution to guide the fuzz testing of binary applications [2]. I have worked on the binary analysis and concolic execution engine.

Lib2Life - Translate physical documents to a digital format and enrich the digital copies by adding meta-information, indexing capabilities and smart search, while keeping their original aspect. I have worked on the image processing, OCR, metadata enrichment and distributed processing infrastructure. The processing solution was used by the libraries from Bucharest, Cluj, Iasi and Timisoara to process more than 4M pages.

TraVIS – a GPU Accelerated Computing Tool for Monitoring and Analyzing Network Traffic. The tool is written in C and CUDA.

[0] – https://github.com/dlang
[1] - https://dlang-upb.github.io/D-Summer-School/
[2] - https://github.com/unibuc-cs/river

Additional Experience and Awards

First Prize, Student's Scientific Talks, Bachelor's Section 2015: Awarded for the design and innovation of TraVIS

Second Prize, Student's Scientific Talks, Master's Section 2015: Awarded for the design and innovation of TraVIS

First Prize, IBM's Case Study 2013: Awarded 1st prize for designing a mobile app for reducing air pollution.

Languages and Technologies

Good: C, C++, D, Python, JavaScript, bash, git, Docker, Ansible
Intermediate: Apache Mesos, Apache Airflow, Apache Kafka, SaltStack, Java, HTML, CSS
Prior Experience with: CUDA, Scheme, Haskell, COM, svn, Perforce
Good knowledge of: Object Oriented Programming, Data Structures, Operating Systems, Distributed Systems, DevOps, Cybersecurity, Safe Programming