

István András, SERES

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Current Location: Budapest (Hungary)
Nationality: Hungarian



WORKING EXPERIENCE

2017 Sept - present

Interticket (Budapest, Hungary)
Smart Contract/Blockchain Developer

Interticket is the industry leader in the Hungarian ticketing industry. In the near future they would like to rebase their accounting and settlement system on a private Ethereum blockchain. My job is to facilitate the migration of the core business logic by developing smart contracts for this Ethereum private chain.

2016 October-2017 March

Universität des Saarlandes (Saarbrücken, Germany)
Tutor for the Introduction to cryptography course

Throughout the semester I was giving practical classes to a group of students (cca. 20 cybersecurity Bsc. students). They had each week homework to complete. I corrected them and discussed the solution with them during these lectures.

2016 March- August

UniCredit Business Integrated Solutions (Milan, Italy)
Intern

Role: As part of my master program I chose to do my internship in an internationally recognized company where my task was to analyze blockchain technologies (mainly Ethereum and Bitcoin) regarding security. I mainly focused on and developed financial smart contracts (financial derivatives, (Credit Default) swaps) which could leverage more time- and cost-efficient trading for banks.

EDUCATION

2016 October-2017 August

Universität des Saarlandes (Saarbrücken, Germany)
Master Thesis student

During this time I was working on my master thesis. I was developing a tool with Matte Maffei and his Phd students, which helps developers in creating more secure Ethereum smart contracts.

2015 Oct- 2016 Feb

Universität des Saarlandes (Saarbrücken, Germany)

Major fields: Secure Information Flow, Usable Security and Privacy, Electronic Voting, Secure Machine Learning and Data Mining.

I continued my master in Saarbrücken, Germany. I am also working as an instructor at the Uni for the Introduction to Cryptography course.

2015 summer

Summer School: Future Cloud and Big Data at KTH (Royal Institute of Technology) (Stockholm, Sweden)

I participated in a 2 week long summer school at KTH, Stockholm. The summer school mainly focused on how big or smaller companies like Spotify, Google, Novartis, Ericsson and smaller Swedish startups (e.g. Mentimeter) use their tremendous amount of data. How they are facing these challenges day by day. We also learnt about how to use big data software frameworks such as Hadoop, Flink and Spark. At the very end of the summer school we had to come up with business ideas related to big data challenges and pitch our business idea in front of investors and academic people.

2014 - 2015

Universita degli Studi di Trento (UNITN) (Trento, Italy)

Department of Information Engineering and Computer Science

Major fields: Security and Privacy, Cryptography, Security Engineering, Security Testing, Network Security, Data Hiding, Economics&Management, Startup Lab, Business Development Lab, Privacy and Intellectual Property Rights.

In the first year of my master studies I acquired the basis of Security and Privacy. It was a colorful, contentful and multidisciplinary year: at one class we learnt about the solid mathematics and cryptography behind Computer Security, and another class we built an Arduino hardware which can sniff keystrokes from a wireless keyboard in the vicinity. One of the most exciting project I had during this year was to assess the security of a web application regarding to XSS attacks.

2011 - 2014

Eötvös Loránd University (ELTE) (Budapest, Hungary)

Faculty of Mathematics

Major fields: Algebra, Mathematical Analysis, Information Theory, Number Theory, Discrete Mathematics, Graph Theory, Algebraic Coding Theory, Computer Science, Matlab, Sage, Maple, C++

During my studies my interest has turned towards Computer Sciences, Information Theory and Algebraic Coding Theory and that is why I have chosen such a theme as the topic of my thesis.

Thesis: An Introduction to Quantum Information Theory (Supervisor: Péter Frenkel, Adjunct) I discuss in the beginning of the thesis the basics of classical and quantum information theory, then I focus on a limitative theorem (Holevo bound) for accessible information.

2010 – 2014

Pázmány Péter Catholic University(PPKE) (Budapest, Hungary)

Faculty of Information Technology, Department of Molecular Bionics

Major fields: Bioinformatics, Molecular Biology and Genetics, Immunology, Biochemistry, Database Systems(SQL), C++ Programming

The interdisciplinary point of view, the mutual advantages of the complexity of life sciences and IT have led me to get involved more into Bioinformatics.

Thesis: Developing and evaluating a collagen prediction algorithm.(Supervisor: Zoltán Gáspári, associate professor)

2009 summer

University of Regina (Saskatchewan, Canada)

Awarded a grant for summer school

Subjects: Intercultural Studies, English language, Canadian history, Canadian literature

LANGUAGES

Hungarian (native)

English (fluent, CERF C1)

Spanish (advanced, CERF B2)

Italian (beginner, CERF B1)

Latin

HOBBIES

Listening to music and playing the clarinette (10+ years)
visiting exhibitions and theatre

Poetry,

Seres István András

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2017.10.02.