Cosmin Andrei CONŢU

Work Experience

· **LEAD/SENIOR IT CONSULTANT (REACT/NODE.JS) | 21 SEP 2021 – PRESENT**
CODEN IT CONSULTING | BUCHAREST
 · Developing ReactJS/NextJS frontend applications and NestJS services for e-commerce platform
 · Developing custom IoT monitoring ReactJS application
 · Developing ReactJS frontend application with GraphQL for an order management platform

· **RESEARCH ASSISTANT | 1 JAN 2021 – PRESENT**
UNIVERSITY POLITEHNICA OF BUCHAREST

· **LEAD DEVELOPER, CO-FOUNDER | 1 SEP 2020 – PRESENT**
SYNTRACT | INDEPENDENT PROJECT (6 MEMBERS)
Syntract delivers web and blockchain applications for client and in-house projects.
Delivered client projects:
- *New university platform with admin interface (ReactJS, Typescript, WordPress REST API)*
- *Auto parts platform (public and admin interface) (ReactJS, NodeJS, ExpressJS)*
- *Blockchain development (smart contracts development and integration) (ReactJS, Solidity, Truffle, Web3)*

· **REACT DEVELOPER | 1 JUL 2020 – 30 SEP 2022**
AUSY TECHNOLOGIES | BUCHAREST
 · Developing a multi-branding application using ReactJS, Typescript, PHP and Java
 · Developing a software management platform using ReactJS, Typescript

· **PROJECT COORDINATOR, LEAD DEVELOPER | 25 OCT 2018 – 31 JAN 2021**
PEPPERBIT | INDEPENDENT PROJECT (7 MEMBERS)
Pepperbit is a project whose goal is to develop AI mobile and web applications. The project counts 7 members split in Backend (AI) team and Frontend team. Pepperbit's main project is a real-time traffic scanner using image detection and recognition (traffic signs, cars, pedestrians, etc.) through Deep Learning architectures such as Convolutional Neural Networks (CNN)

· **TRAINER | 8 FEB 2020 – 21 MAR 2020**
LINK ACADEMY | BUCHAREST
 · Collaborator trainer for HTML, CSS and JavaScript courses

· **LEAD DEVELOPER / TRAINER IN JS, REACT & NODE.JS | 14 OCT 2019 – 30 JUN 2020**
WILD CODE SCHOOL | BUCHAREST
 · Training and mentoring the students from the Web and mobile development full-time English course
 · Creating and running external workshops organized by Wild Code School
 · Setting project requirements together with the client
 · Acting as Project Manager, Scrum Master and Team Lead for the students during their projects with real clients

· **SOFTWARE DEVELOPER | 19 NOV 2018 – 13 OCT 2019**
ENGHOUSE NETWORKS | RESEARCH AND DEVELOPMENT DEPARTMENT
  · Developing R&D full stack JavaScript applications using NodeJS, ReactJS and MongoDB

· **RESEARCH ASSISTANT | 1 SEP 2018 – 31 DEC 2018**
UNIVERSITY POLITEHNICA OF BUCHAREST

· **PRODUCT ENGINEER | 16 MAY 2016 – 18 NOV 2018**
INFINEON TECHNOLOGIES ROMANIA | AUTOMOTIVE POWER SUPPLY AND NETWORK ICs
DEPARTMENT
  · Software development responsible in Product Engineering team

· **TEST ENGINEERING MASTER WORKING STUDENT | 1 OCT 2015 – 15 MAY 2016**
INFINEON TECHNOLOGIES ROMANIA | AUTOMOTIVE STANDARD POWER DEPARTMENT

· **TEST ENGINEERING WORKING STUDENT | 22 SEP 2014 – 30 SEP 2015**
INFINEON TECHNOLOGIES ROMANIA | AUTOMOTIVE STANDARD POWER DEPARTMENT

· **TEST ENGINEERING INTERN | 16 JUN 2014 – 5 SEP 2014**
INFINEON TECHNOLOGIES ROMANIA | AUTOMOTIVE STANDARD POWER DEPARTMENT

Education

· **PhD | 1 OCT 2017 – PRESENT**
UNIVERSITY POLITEHNICA OF BUCHAREST | DOCTORAL SCHOOL OF ELECTRONICS,
TELECOMMUNICATIONS AND INFORMATION TECHNOLOGY
  · **Subject:** Resource Management in Virtualization Solutions for Networks and Services
  · **Technologies:** NFV, SDN, 5G, Network Slicing

· **MASTER'S DEGREE | 1 OCT 2015 – 28 JUN 2017**
UNIVERSITY POLITEHNICA OF BUCHAREST | FACULTY OF ELECTRONICS,
TELECOMMUNICATIONS AND INFORMATION TECHNOLOGY
  · **Master Program:** Advanced Software Technologies in Communications

· **BACHELOR'S DEGREE | 1 OCT 2011 – 8 JUL 2015**
UNIVERSITY POLITEHNICA OF BUCHAREST | FACULTY OF ELECTRONICS,
TELECOMMUNICATIONS AND INFORMATION TECHNOLOGY
  · **Study Field:** Electronics and Telecommunications
  · **Specialization:** Telecommunications Software and Networks

· **HIGH SCHOOL GRADUATE | 1 SEP 2007 – 15 JUN 2011**
MIHAI VITEAZUL NATIONAL COLLEGE, BUCHAREST
  · **Theoretical program:** Science - Mathematics and Computer Programming

Courses and Certificates

· **CERTIFICATES**
 ANC Certified Manager (COR code: 112029)
 ANC Certified Trainer (COR code: 242401)

· **COURSES**

· **Programming**
  · Fundamentals of Java Programming
  · PHP Programmer
  · PHP / MySQL Advanced Programmer
  · Python Fundamentals

· **Networking**
  · CCNA Exploration: Network Fundamentals
  · CCNA Routing and Switching: Routing Protocols
  · CCNA Routing and Switching: Switched Networks
· **Databases**
  · Database Design and Programming With SQL
· **Mobile Applications**
  · Applications Development for Android Platform
  · Samsung Boot Camp 2015
· **Operating Systems**
  · NDG Linux Essentials
· **Management**
  · Manager Course
  · EU funds contribution and management in sustainable development of Romania

Personal Skills

· **LANGUAGES**
· **Romanian** – Native Speaker
· **English** – Proficient user
· **French** – Basic user
· **Spanish** – Basic user

· **TECHNICAL SKILLS**
· ReactJS | NodeJS | Typescript | Java | PHP | Python | MATLAB | MongoDB | SQL | Linux
· SCRUM | JIRA | Trello | Subversion (TortoiseSVN) | Git

· **SOFT SKILLS**
· Communication | Teamwork | Leadership | Mentoring | Determination | Flexibility

· **OTHER SKILLS**
· **Driving license**: B

Projects

· Telecommunications Department, ETTI, UPB website
· Telecommunications Department, ETTI, UPB website notifications mobile application (Android)

Publications

- **C. A. Conțu**, E. C. Popovici, O. Fratu, M. G. Berceanu, "Security Issues in Most Popular Content Management Systems", Proceeding of The 11th International Conference on COMMUNICATIONS, COMM 2016, Bucharest, ROMANIA, June 9-11, 2016, ISBN: 978-1-4673-8197-0
- A. Țapu, **C. Conțu**, E. Borcoci, "Network Function Virtualization Experiments using SONATA Framework", Proceeding of The International Symposium on Advances in Software Defined Networking and Network Functions Virtualization SOFTNETWORKING 2018, Athens, GREECE, April 22-26, 2018, ISBN: 978-1-61208-625-5
- A. Țapu, **C. Conțu**, E. Borcoci, "Multiple Chained Virtual Network Functions Experiments with SONATA Emulator", Proceeding of The 12th International Conference on COMMUNICATIONS, COMM 2018, Bucharest, ROMANIA, June 14-16, 2018, ISBN: 978-1-5386-2350-3
- **C. Conțu**, A. Țapu, E. Borcoci, "Virtual Network Function Use Cases Implemented on SONATA Framework", International Journal on Advances in Networks and Services, issn 1942-2644 vol. 11, no. 3 & 4, year 2018, 103:112
- E. Borcoci, A. Ciobanu, **C. Conțu**, "Layered Network Domain Resource Management in Multi-domain 5G Slicing Environment", Proceeding of ADVANCED INFORMATION AND COMMUNICATION TECHNOLOGIES-2019, Nice, France, July 28-August 2, 2019, ISBN: 978-1-61208-727-6
- E. Borcoci, **C. Conțu**, A. Ciobanu, "5G Slicing Management and Orchestration Architectures - Any Convergence?", Proceeding of The Eleventh International Conference on Advances in Future Internet AFIN 2019, Nice, France, October 27-31, 2019, ISBN: 978-1-61208-747-4
- A. Ciobanu, **C. Conțu**, E. Borcoci, "Study on Use-Cases of Open Source Management and Orchestration Framework in 5G Projects", Proceeding of The Nineteenth International Conference on Networks 2020, Lisbon, Portugal, February 23-27, 2020, ISBN: 978-1-61208-770-2
- **C. Conțu**, I. Cioarcă, M. Ene, L. Nichifor, "Study on Optimal Convolutional Neural Networks Architecture for Traffic Sign Classification Using Augmented Dataset", Proceeding of The 13th International Conference on COMMUNICATIONS, COMM 2018, Bucharest, ROMANIA, June 18-20, 2020, ISBN: 978-1-7281-5611-8,
- E. Borcoci, **C. Conțu**, A. Ciobanu, "On Heterogeneity of Management and Orchestration Functional Architectures in 5G Slicing", International Journal on Advances in Internet Technology, vol 13 no 1 & 2, year 2020, 83-96
- A. Ciobanu, **C. Conțu**, E. Borcoci, "Charms and Virtual Network Functions Primitives Experiments using Open Source MANO Framework", Proceeding of The Sixteenth Advanced International Conference on Telecommunications AICT 2020, Lisbon, Portugal, September 27 – October 1, 2020, ISBN: 978-1-61208-802-0
- A. Ciobanu, **C. Conțu**, E. Borcoci, M. Vochin, and F. Y. Li, "Optimal Service Placement with QoS Monitoring in NFV and Slicing Enabled 5G IoT Networks", 2021 IEEE Globecom Workshops (GC Wkshps): IEEE IoST-5G&B: 2nd Workshop on Recent Trends of Internet of Softwarized Things - 5G & B, Madrid, Spain, 7–11 December 2021
- **C. Conțu**, A. Ciobanu, E. Borcoci, M. Vochin, F. Y. Li, "An Automation Platform for Slice Creation using Open Source MANO", Proceeding of The 14th International Conference on COMMUNICATIONS, COMM 2022, Bucharest, ROMANIA, June 16-18, 2022, ISBN: 978-1-6654-9485-4
- **C. Conțu**, A. Ciobanu, E. Borcoci, M. Vochin, I. A. M. Balapuwaduge, S. Topoloi and R. Trifan, "Deploying Use Case Specific Network Slices Using An OSM Automation Platform", 25th International Symposium on Wireless Personal Multimedia Communications (WPMC) 2022, Herning, Denmark, October 30 – November 2, 2022