Ionut-Ciprian Cenac

- Personal Information
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- Education
  - Currently pursuing a Master's Degree in Distributed Systems and Web Technologies at Gheorghe Asachi Technical University of Iasi, Faculty of Automatic Control and Computer Engineering.
  - I won a scholarship in 9 out of 11 semesters so far
  - I teached C programming to fellow students.
  - For my diploma project I have created a remote presence system, extending the user's visual, auditive and motion capabilities.
  - Some of the topics covered in the courses that I really enjoyed: distributed systems, design patterns, embedded systems, programming paradigms, linux networking and computer security.

- Work experience
  - Amazon, Iasi, Romania (2016 - Present):
    - Software Development Engineer - Client Side Metrics
      - Part of the team responsible for measuring the client-side latency and user behavior on web, mobile web and mobile applications.
      - Deployed code on all locales of the Amazon websites, mobile websites, and mobile applications. The code is also used on IMDB, Audible and others.
      - Processing billions of hits every month.
      - Technologies: Legacy JavaScript, Java, Hadoop, Map-Reduce, AWS, Objective C, iOS, Android.
      - Keywords: E Commerce, Cloud Computing, Latency, Metrics, Analytics, High Performance, Big Data, Mobile Technologies, Scalability
  - Bitdefender, Iasi, Romania (2014 - 2016):
    - Software Engineer- Online Threats/Event correlation
      - Worked inside the team responsible for the award winning anti-phishing engine. The team is also responsible for the parental-control and anti-fraud products.
      - Worked on a distributed system capable of crunching TBs of information. The system is responsible for storing and processing all the information inside Bitdefender. The idea was to improve the overall detection of their security product by correlating information across teams and products.
      - Got experience in cloud computing and data mining.
      - Technologies: ElasticSearch, MongoDb, Node.js, AngularJS, AWS, RabbitMQ, Docker
      - Keywords: Security, Cloud Computing, Data Mining, Distributed Systems, Artificial Inteligence, High Performance, Web Technologies.

- Continental Automotive Group, Iasi, Romania
  - Software Engineering Intern (2012 - 2014):
    - Implemented a DCDC-Converter using dsPIC as a platform.
    - Developed a tool for the analysis of the returned Electronic Control Units (ECUs) which is now used in the Budapest plant. This project also won an internal prize for inovation.
    - Researched topics related to the new AUTOSAR standard. Specifically, I was taking some commonly used architectures and trying to implement them in a AUTOSAR compliant way.
    - I worked on a diagnosis tool for an Application Specific Integrated Circuit (ASIC) over the LIN communication protocol. My job consisted of developing a graphical user interface capable of monitoring and controlling the internal registers of the ASIC using a microcontroller as a gateway.
    - Developed a LAN license scanner tool. This tool is used by the local support team.
    - Implemented a photo voting interface for the intranet. This is now used for internal photo contests.
    - Developed several other scripts and tools for importing, exporting and conversion of data between different internally used formats.
    - Technologies: Embedded C, Microcontrollers, FPGA, LIN, CAN, Python, C#, Visual Basic.NET, Perl, DXL, VBA.
    - Keywords: Automotive, Embedded Systems, Low Level, Drivers, Communication Stack, Protocols, Assembly, Scripting, Automation.

- Freelancing
  - Together with two colleagues, we developed a job platform. It had the means for publishing open job positions, applying for a job with an existing CV, online creation of CVs and many other functions.

- As a student
  - Together with 3 colleagues and under the mentorship of a faculty professor, we have developed an eye tracking system, with an entire infrastructure around it, capable of helping paralyzed people use the internet and communicate. The project got us a lot of prizes and media appearances and evolved into a startup. The project is named ZuperEye (www.zupereye.com).
  - Together with two colleagues, we developed a fast graph plotter capable of drawing millions of points in a matter of a few seconds. This project got us the first place at CENIT Academic Trophy.

- Personal projects
    - Working on a distributed job scheduler for cloud computing.
    - Doing research in object recognition and computer vision.
    - Doing research in the field of gamification and home automation.
    - A small DirectX game similar to Ricochet, together with a level editor for it. This was the project I presented in my last year of high school.
    - A trainer for Fifa 2008 capable of adding goals to any of the two sides.
    - An interpreter for the esoteric language Brainfuck with some personal additions to the language syntax.
    - Line follower robot, light dimmer over internet, temperature sensor network, AI for tic-tac-toe, linux network of virtual machines and many others.

- Skills
    - Javascript (node.js), HTML, MongoDB, Elasticsearch, TCP/IP stack, internet security, design patterns, architecture, object oriented design, C, C++, PHP,MySQL,C# - industry experience
    - Java, AutoCAD, Matlab, electronics - school projects
    - Data structures and algorithms - programming contests experience

- Awards and achievements
    - 2015 - Diploma project - Remote Presence System (using the ZuperEye eye tracking technologies)
    - 2014 - Startup company - ZuperEye
    - 2014 - Participation at Business Days in Bucharest with ZuperEye project
    - 2014 - First place at BringITon Iasi.
    - 2014 - Prize For Excellence In Education (awarded by the Romanian minister of education)
    - 2014 - National phase finalists of Imagine Cup Romania
    - 2014 - First Place at Scientific Communications
    - 2012 – First place at CENIT Academic Trophy
    - 2010, 2011 – Participation in the National Olympiad of Informatics

- Hobbies
    - I enjoy reading anything related to science, technology, business, finance, psychology, math and physics.
    - I love playing all sorts of team sports like handball and basketball. Also practice tennis.
    - I spend my time tinkering and reverse engineering things so I can understand how they work.