Bogdan Irimia

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Work experience

Software Engineer, Project Manager   2003 – present, DigitAIR

Mobile Software Development

- Designed and developed DigiStation, a Virtual Weather Station, running on multiple platforms: Android, iOS, Mac OS X, Windows, web
  Challenges: consistent design across platforms; natural animation of elements

- Designed and developed Canaf (Android, iOS) and EuropaFM (Android, iOS) – multimedia applications
  Challenges: integration of audio and video content; simple synchronization with the CMS

- Designed and developed Vodafone Meteo (Android, iOS) – weather nowcast and forecast for Romania
  Challenges: real time data synchronization; geolocation

- Designed and developed Weather Console for iOS – mobile terminal for weather station, as an internal tool and proof of concept
  Challenges: socket communication; radar-like wind display; futuristic design

- Implemented a thin e-mail client and a notification-based messenger for the Zapp E@zy terminal (runs BREW 3.1; apps developed in C++)
  Challenges: complex client-server protocol; implementation of custom UI elements

- Implemented a set of content-delivery applications on BREW 2.1 platform: Meteo; TuneUP; Cosmopolitan; Gazeta Sporturilor; Pocket FHM (apps developed in C++)
  Challenges: tackling platform and device limitations

- Implemented several mobile web services (Bilet.ro; ZborIeftin.ro; Gadgeteer.ro) and promotional contests for Vodafone Live!
  Challenges: multiple device support

- Developed a series of applications for the iMode platform (Cosmote mobile operator): Meteo; Sapte Seri; FHM; Gazeta Sporturilor
  Challenges: integration with the iMode platform (XML-based content delivery)

Web frontend and server development

- Contributed to the development of the mStats platform. Implemented the back-end data processing algorithm that handles in real-time **over 350.000 views per day**
  Challenges: processing of large volumes of data; large database optimization

- Developed a web-to-sms platform connected to Vodafone's SMSC, used for SMS promotions and SMS-based products by Vodafone and its clients; the software is based on open-source code (C++; PHP+MySQL for reporting; shell scripts)
  Challenges: protocol customization for Vodafone SMSC platform; reliability

- Developed the Weather Data Repository (mRepo) – weather data aggregation and processing; graphic products aggregation and processing; data editing; clients administration (PHP+MySQL; XML-RPC services; Perl for backend processing)
Challenges: integration of multiple data sources; aggregation of heterogeneous information

- Contributed to development of MeteoRomania.net web site (based on Drupal CMS)
Challenges: high workload (over 50.000 views per day); complex data organization

Software Engineer, Owner   2006 – 2009, Clip Media Solutions

- Implemented several web projects:
  - www.intelligent-ideas.com (using Drupal CMS)
  - www.pda-shop.ro and www.smartpda.ro (based on OpenCart)
  - www.demirare.ro (collaborative blog based on WordPress)
  - www.sportwettenfuxx.de (with 3 more collaborators, using Drupal CMS)

Software Engineer   2001 – 2003, Starckrom

- Implemented a web interface for monitoring the ecological parameters for several rivers in Suceava County (pilot project, web-based)
- Implemented a C++ application for computing atmospheric sounding reports
- Implemented an administrative section for the National Meteorological Institute's communication system (Visual Basic)

Education

Research project   2007 – 2010, "Politehnica" University, Bucharest

Study area: "Real Time Control for Non-Linear Processes"
Contributed to 5 articles published in accredited publications
Co-authored the book "Practical Solutions for Non-Linear Processes Control"

Master of Science   2006 – 2008, "Politehnica" University, Bucharest

Study area: "Advanced Automation"
Dissertation paper: "Numerical position control in a non-linear system"
Graduated with maximum grade

Bachelor of Science   2001 – 2006, "Politehnica" University, Bucharest

Automatic Control and Computers Faculty
Diploma of Engineer in Automation and Systems Engineering
Graduated with a top-10 grade in my faculty

Technical Skills

- Mobile software development: Android (Java); iOS (Objective-C); BREW (C++)
- Good knowledge of mobile technologies, trends and devices
- General programming: C++; .NET Framework; Perl; Java
- Web programming: PHP; MySQL; JavaScript
- General IT skills: Unix administration
- Algorithms: image processing; large datasets processing
- System engineering: process identification; requirements analysis; algorithm design; automated control; performance analysis

Hobbies

- Practicing Ki Aikido (martial arts) for more than three years (black belt). I am interested in the mental preparation and psychological aspects of the art
- I enjoy SF movies and movie series (I am a fan of Star Trek TNG, Stargate SG-1 and Stargate Atlantis). I enjoy discovering new futuristic ideas and concepts
- I am passionate about different thinking philosophies, attitudes about life and future. I like studying oriental philosophy and thinking patterns

Languages

- Romanian (mother tongue)
- English (advanced – obtained the *Certificate of Advanced in English* from Cambridge)
- French (beginner)