

Ionuț Ticuș-Mitidoi

Personal Information

Date of birth: 26th of March, 1985
Citizenship: Romanian
Specialization: Software Engineer
Email: ticus.ionut@gmail.com



Education

2004 – 2010: *Politehnica University of Timisoara*, Romania – Diplomat Engineer in Automation & Computers
2000 – 2004: *Traian National College of Drobeta Turnu Severin*, Romania – mathematics & computer science

Languages

Romanian: mother tongue
English: European C1 (proficient user in reading, listening, speaking and writing)
German: European B1 (independent user in reading, listening)

Competences

computer science:

- an experienced **GNU/Linux** user (development, administration, scripting)
- software development in various languages: **Python**, JavaScript, C, Java
- experience with many DBMS-es: **PostgreSQL**, MongoDB, MySQL, **Elasticsearch**, SQLite
- experience with various toolkits and platforms: **AioHTTP**, **Tornado**, jQuery
- webpage design skills: HTML4/5, CSS, JavaScript
- experience with many programming technologies: **JSON**, SOAP & REST webservices, Websockets, long-polling, SQL & NoSQL
- experience with many development tools: **PyCharm**, **Eclipse**, Netbeans, **GIT**, SVN
- virtualization technologies: VirtualBox, KVM, QEMU

telecom & computer networks:

- advanced Linux networking: routers (Endian Firewall), VPNs (OpenVPN, VPNC, Openswan)
- advanced system administration: **Nginx**, **Docker**, Apache, FTP servers, **ejabberd**, Postfix
- strong knowledge of the TCP/IP protocols
- GSM /GPRS basic principles

miscellaneous:

- **GIS**, GPS, IMU, hardware, storage, cloud systems (**AWS**, DigitalOcean, GCP, Linode, Azure)
- experience with mapping platforms and services: OpenStreetMap, Google Maps, Leaflet, QGIS, PostGIS, various Python libraries and file formats
- HMI/SCADA experience: Iconics, OPC
- office tools: LibreOffice, MS Office, Google Docs
- others: driving license (category B)

Professional Experience

Aug 2016 – present: **Finty** (formerly CreditCardCompare), Remote – DevOps engineer

Main projects and responsibilities:

- **Auth Service** – general authentication service used across microservices
technologies: AioHTTP, Python, JSON, JWT, PostgreSQL, AsyncPg
- **Tracking Service** – web API for storing and processing pageviews, conversions, reports
technologies: AioHTTP, Python, JSON, JWT, PostgreSQL, AsyncPg, PyTZ
- **Periodic Service** – task runner for various integrations between microservices
technologies: Django, Python, Celery, selenium, Google APIs, openpyxl, paramiko
- **Product Service** – product data store and search API
technologies: AioHTTP, Python, Elasticsearch, Sentry
- **Administration** – AWS resources management, Docker Swarm deployment, Email, Gitlab, Slack, Trello, 1P

Nov 2005 – Dec 2015: **ETA Automatizari Industriale SRL**, Timisoara, Romania – software architect and developer, system administrator

Main projects and responsibilities:

- **HuGo** – electronic Toll collection system implementation for the SafeFleet stack
technologies: shapely, rtree, pyproj, pyws, Tornado, MongoDB, JSON, XML
- **Device gateways** – implemented gateways for various 3rd party tracking devices (Teltonika, Careu, Intellitrac, SmartOne) to be integrated with SafeFleet Portal
technologies: TCP, Tornado, binary data, MongoDB
- **eRSMon** – python based daemon for sending notifications (email / SMS) and OTAP messages
technologies: Tornado, SQLAlchemy, Python, PostgreSQL, PySerial, SMTP
hardware: Siemens TC65i GSM/GPRS modem
- **manage** – internal web application for troubleshooting SafeFleet devices
technologies: Apache, Django, Python, JavaScript, JQuery, PostgreSQL, XMPP
- several **SCADA** projects in various industries (water treatment, district heating, electric utility, hypermarket chains)
technologies: Iconics, OPC, LonWorks, Modbus, GSM/GPRS
- **system administration** (firewall, databases, hardware installation and configuration, RAID setups (software and hardware), backups, 3rd party servers administration)

Various freelancing projects:

- mission control software for high-altitude balloon
- map renderer using Leaflet, aiohttp and PostGIS database
- access control system using Raspberry Pi, RFID, magnetic locks
- home automation PWA: switches, sensors, cameras

Social skills

- good ability to adapt to multicultural environments
- strong referential values of fairness, equity and dignity
- problem-solving attitude

Hobbies

- ski, football, tennis, traveling, chess and other board games