








## Ioan Coman

-  Bucharest, Romania
-  0773889233 / 0742034624
-  coman.ioan95@gmail.com / office@ioancoman.ro
-  www.github.com/I1C
-  www.ioancoman.ro

Sex Male | Date of birth 25 May 1995 | Nationality Romanian

## WORK EXPERIENCE

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### 15 Oct 2020–Present Full Stack Developer

BearingPoint, Bucharest (Romania)

- full stack web application development using Angular (TypeScript, HTML, SASS) for frontend and NestJS with PostgreSQL for backend (REST services - TypeScript) and database
- developing full stack mobile applications using NativeScript for frontend and NestJS with PostgreSQL for backend (REST services - TypeScript) and database
- testing backend with Postman
- working with Azure Services
- coding in Visual Studio Code and use the latest technologies such as Git, pgAdmin, Docker, Husky, Jest, ESLint etc.
- code reviews (PR's)
- among other things, I was Scrum Master when needed

### 1 Jan 2019–15 Oct 2020 Full Stack Developer

Different projects at different Companies such as: Petroconstruct Group, Polytechnic University of Bucharest, AQUASoft, Bucharest (Romania)

- full stack web application development using React for frontend and Node.js with MySQL for backend (REST services - JavaScript) and database
- developing full stack mobile applications using React Native for frontend and Node.js with MySQL for backend (REST services - JavaScript) and database

- together with a team I worked on the development of a complex billing application and all the works were centralized on Bitbucket, each working on its component. After finishing each task, I made a request with the branch that contained that task
- testing backend with Postman
- working in Visual Studio Code
- other: Express, Sequelize, Nodemon etc.

1 Mar 2017–1 Mar  
2019

### Engineer & Key Account Manager

Genodynamic (Boston Scientific), Bucharest (Romania)

- installing and maintaining medical equipments in different storage locations
- software and hardware remediation of medical equipment
- clinical support during medical interventions
- holding meetings with hospital directors, hospital managers
- drafting contracts for different projects
- closing deals
- preparing documents for public auctions
- offering trainings for physicians

## PROGRAMMING KNOWLEDGE

PROGRAMMING LANGUAGES		PROJECTS / APPLICATIONS	OTHER PROGRAMMING COURSES	SKILL LEVEL 1-5
Languages	IDE / EDITOR:			
TypeScript	Visual Studio Code	Full Stack REST Applications (WEB & Mobile), mHealthRecords – HL7 full stack application	Pluralsight	5
JavaScript	Visual Studio Code	Full Stack REST Applications (WEB & Mobile) Invoice Application, mHealthRecords – HL7 full stack application	Pluralsight	5
HTML	Visual Studio Code	Full Stack REST Applications (WEB & Mobile), mHealthRecords – HL7 full stack application	Pluralsight	5
SASS	Visual Studio Code	Full Stack REST Applications (WEB & Mobile), mHealthRecords – HL7 full stack application	Pluralsight	5

SQL	Visual Studio Code / MySQL Workbench / pgAdmin	Full Stack REST Applications (WEB & Mobile), mHealthRecords – HL7 full stack application	Pluralsight	5
Java 8	IntelliJ IDEA, Eclipse, NetBeans	Medical Application – Client Server, Sock Merchant, Counting Valleys	Advanced Java programming (Cătălin Tudose – Luxoft)	3
Python	Sublime, Spyder, PyCharm	Amazon Client S3 File Automation	DataCamp – online course	2
C++	Arduino IDE	Myoelectric Hand Prosthesis	Bachelor's degree (C++), Medical Data Communications and Networks (Ana-Maria Drăgulinescu - ETTI),	2

TypeScript | In this language I have developed full stack applications with REST services for WEB and mobile. For the frontend I used *Angular* and *NativeScript*, and for the backend I used *NestJS* and *PostgreSQL / MySQL*.  
For all projects, I used *Git* to manage the code. I used *Postman* to test the backend routes. Among the others I also used *Husky*, *ESLint*, *Jest*, *Docker*, *pgAdmin* etc.  
All the components that I designed are reusable and use ultimate best practices.

JavaScript | In this language I have developed two full stack applications with REST services, one for WEB and another for mobile. For the front end I used *React* and *React Native*, and for the backend I used *Node.js* and *MySQL*.  
For all projects, I used *Bitbucket* to manage the code. I used *Postman* to test the backend routes. Among the others I also used *Express*, *Sequelize*, *Nodemon*, etc.

HTML | In this language I have developed many interfaces for some full stack applications with REST services for WEB and mobile. I also used BEM.

SASS | In this language I have stylized many interfaces for some full stack applications with REST services for WEB and mobile. There I used variables, nested rules, mixins, includes functions etc. I also used BEM.

SQL | In this language I have made databases for miscellaneous full stack applications. For that I used *MySQL* and *PostgreSQL*. I used *pgAdmin* as UI.

Java 8 | In this language I designed some projects like: *Sock Merchant*, *Counting Valleys*, *Medical Application – Client Server*. The first two projects represent algorithms for simple games as their names are. The last project is more complex than the first two. This is a medical application of *client server* type. To achieve it I used: *collections*, *multi-threading*, *logging*, *lambda expression*, *streams*, *sockets*, *exceptions*, *unit test of type junit*. For write the codes I used *IntelliJ IDEA*, *Eclipse* and for GUI I used *NetBeans*. In the future I would like to use *Spring Framework* for my projects.

Python | In this language I created two projects like *Amazon Client S3* and *File Automation*. The

first project tests the upload and download speed of a file in Amazon S3. For that I used *Boto3 SDK*. The second project represent the automation of excel files. The script is able to write an excel file, extract data according to certain criteria, compare columns etc. It is also able to compare even more excel files. To achieve it I used *pyexcel*, *pandas* and for that I used the *Spyder* from the *Anaconda distribution*.

C++ In this language and with *Matlab* I did the *Bachelor's degree entitled Myoelectric Hand Prosthesis*. With myoelectric sensors I acquired the electric signals from muscles and with *Matlab*, I processed them. After that, I programmed the microcontrollers of the prosthesis. I designed the 3D model of the prosthesis in *Catia V5* and then I printed it. For this project I also used a special shield for *Medical applications* called *e-Health*.

## STANDARDS KNOWLEDGE

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In the dissertation project I created a hybrid medical platform (web and mobile) that monitors vital parameters remotely. Vital parameters were monitored using high-performance everyday gadgets and stored with service providers.

HL7 The platform I created took that data in real time and converted it to the standard HL7 FHIR language and could then be sent to any hospital in the world that used this standard to monitor patients remotely and streamline triage in hospitals.

The R4 endpoint <http://hapi.fhir.org/baseR4> was used as the reference server for the HL7 - FHIR api. For IntelliSense in coding, I used a special scheme provided by HL7, and as a format we went to JSON, because it is the most common format used in web applications.

## IT KNOWLEDGE

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- LINUX;
- Coding on WINDOWS, MAC and LINUX;
- Experience with installing, configuring, and repairing WINDOWS and LINUX;
- Experience with troubleshooting computers and laptops;
- Experience with troubleshooting medical equipments;
- Basic knowledge: Visual Basic, OrCAD PSpice, Catia V5.

## EDUCATION AND TRAINING

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- 1 Oct 2019–12 Jun 2021    The Faculty of Automatics and Computer Science  
University Politehnica of Bucharest (Romania)  
Diploma (type of studies): Master's degree  
Specialization: Advanced Computer Architectures
- 1 Oct 2014–15 Jul 2018    The Faculty of Medical Engineering  
University Politehnica of Bucharest (Romania)  
Diploma (type of studies): Bachelor's degree  
Specialization: Medical Equipment and Systems
- 1 Oct 2019–15 Jul 2021    Certificate of psycho-pedagogical module level 2  
Bucharest (Romania)
- 1 Oct 2014–15 Jul 2018    Certificate of psycho-pedagogical module level 1  
Bucharest (Romania)
- 10 Jul 2017–21 Jul 2017    Boston Scientific Medical Lasers - Service and Repair  
Training  
Boston Scientific Enterprise, Starnberg (Germany)
- 29 Oct 2015–31 Oct  
2015    4th International Congress in Robotic Surgery  
Bucharest (Romania)
- Nov 2015    Participation certificate for being part of the Freestyle  
Showcase jury: Robochallenge 8th ed. - International Phase
- Jul 2014    Common European Framework of Reference for  
Languages, English Language, B2 Level – Effective  
Operational Proficiency or medium
- Jul 2014    Professional Certificate in Informatics emitted by the  
Romanian Ministry of Education, Research, Youth & Sport

## PERSONAL SKILLS

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Mother tongue(s) Romanian

Foreign language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C2	C2	C2
French	A2	B1	A2	A2	A2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

Common European Framework of Reference for Languages

**Communication skills** Good communication skills gained through my experience in working with teams around the world and providing support on different accounting issues.

**Organisational / managerial skills** Logical thinking, patience, organized, self-motivated. Dynamic and perseverant, serious, capable, creative.

**Job-related skills** Good knowledge of sales processes and step by step medical maintenance process generally used in medical corporate structure.

**Other skills** Creative, persuasive, positive.  
Hobbies: travelling, reading, seek of knowledge and different experiences, theatre, volleyball, dancing.

**Driving licence** Category B