



## Sebastian – Corneliu Vîrlan

-- Senior Software Engineer --

### Personal Details

Contact Details	Me
<b>Address:</b> 23 Goulden St., M6 5PY	<b>Gender:</b> Male
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### About Me

My career in programming started back in 2008 when I built a successful Romanian social platform *Angel and Demon* - <https://isd.sebastianvirlan.com/> (previously <http://ingersidemon.ro>). I worked on this project for approximately 2 years, work that stopped due to the rise in popularity of Facebook. This gave me the opportunity to work as a professional Web Software Engineer for a local business. This lasted for 12 months due to circumstances out of my control, I then switched back to working as a freelancer where I built various software solutions for different local companies. Between 2015 - 2018 I grew up professionally as Senior Web Software Engineer in Romania and UK.

In September 2018 I decided to move from doing WEB development to something different and I joined BBC as Platform Software Engineer, where I am responsible for the design of software, and for implementation and operation of effective software and tools.

### Education

**Suceava, SV, RO „Ștefan Cel Mare” University of Suceava 2008 – 2016**

- M.S.E., Computer Science and Engineering, July 2016
- B.S.E., Computer Engineering, July 2014

For more details about the coursework please read my post on:

<https://sebastianvirlan.com/education/>

## Skills, Experience

- Leveraged Knowledge in WEB Development, Full Stack Development
- Expertise in many mainstream development language/frameworks
  - o Programming Languages: PHP, Ruby, JS/TS, Swift, Clojure
  - o Backend Frameworks: Ruby on Rails, Laravel, CodeIgniter, Smarty
- Competence in database design and use in software applications
  - o MySQL, MongoDB, DynamoDB
- Real Time Communication with Sockets
- Good Understanding of DevOps practices
- Expertise with mainstream development and deployment tool chains
  - o IDE: IntelliJ, RubyMine, PhpStorm, WebStorm, xCode, VSCode
  - o SCSS: GIT
  - o CI: Bamboo, Jenkins, GoCD
- Experience of professional software development processes (Agile)
- Experience using Linux OS / Mac OS, comfortable on the Linux/Unix command line
- Very Good understandings of OOP/functional principles
- Git and it's features
- Containerisation software platforms like Docker, I used to do video tutorials about "How to deploy modern WEB applications with Docker".
- Expertise in automatic deployment, scaling and management of containerized applications using Kubernetes
- Tests using automated test-driven techniques for ensuring code quality and good coverage
- Mentoring junior engineers / starters
- Computer Science degree + Computer Science and Engineering Master's Degree

## Publications

- **Modular JavaScript Facebook Application Tutorial** - <https://assist-software.net/snippets/how-save-data-amazon-dynamodb-using-ruby-on-rails>
- **Workshop Ruby on Rails (CRUD and API tutorial)** - <https://assist-software.net/snippets/ruby-rails-crud-and-api-tutorial>
- **How to save data to Amazon Dynamo DB using Ruby on Rails** - <https://assist-software.net/snippets/modular-javascript-facebook-application-tutorial>
- **Video Tutorials - Deploy Modern Applications with Docker**, based on a contract with the PackPub company.
- **Posts on my Programming Blog** - <http://sebastianvirlan.com/blog/>

## Speaker

- **Journey to Success** @ "Ştefan The Great" University of Suceava
- **Choose the right CI Tool for your team** @ BBC Manchester
- **Mentor** @ CodeUp Manchester & CodeUp Salford

## Work Experience

### Platform Software Engineer at BBC MediaCityUK September 2018 – Present

- Designed and built Data Transformation Workflows that uses Clojure components and Kafka Topics to consume messages and publishes them to S3.

- Ensured quality with unit and integration tests and applying TDD
- Research on a list of CI tools for choosing the best fit for the team
- Work with project, product and technical leads to design software and create implementable specifications and tasks at feature and component level
- Part of my day to day tasks is to review and give constructive feedback on others code
- Utilised: JavaScript, TypeScript, Clojure, Docker, K8s, Kafka, Jira, Jenkins

For more details about what I do at the BBC please read my post on:

<https://sebastianvirlan.com/software-engineer/bbc-manchester/>

#### Senior Software Engineer TheFlow LTD. Sheffield, UK July 2017 – August 2018

- Improved existing code using SOLID design principles.
- The development of a framework to increase code re-usability.
- Developed web applications using Ruby, Ruby on Rails Framework and MySQL databases.
- Ensured quality with unit testing and minimum 80% test coverage.
- Utilised: Ruby, Ruby on Rails, JavaScript, Kafka, Docker, Jira, Bamboo

For more details about my work at TheFlow please read my post on:

<https://sebastianvirlan.com/software-engineer/the-flow-sheffield/>

#### Senior Software Engineer Assist Software Suceava, Romania September 2015 – July 2017

- Applied clean code practices and design patterns to develop readable, maintainable and scalable code for web applications.
- Optimized legacy code and improved performance across many projects.
- Lead Developer on a team of 4 people that together we developed a BOT for a Strategic Management Virtual Game for SMES web app.
- Lead Developer on a team of 3 people where we successfully implemented all the client's requirements.
- Integrated software with monitoring and support tools
- Utilised: PHP, Laravel, Ruby, Ruby on Rails, JavaScript, Vapor Swift, Docker, RedMine

For more details about my work at Assist Software please read my post on:

<https://sebastianvirlan.com/software-engineer/assist-software-suceava/>

#### Freelancer – 15 March 2011 – August 2015

After working at Enovation HD, I became a Freelancer, and I start building software solutions for Romanian companies. I was mainly focused on building online shops, using WordPress or eCommerce platforms. One of the biggest challenges came later, when I built a Real Estate platform.

For more details about my work in freelancing time please read my post on:

<https://sebastianvirlan.com/software-engineer/freelancer/>

## Software Engineer at Enovation HD 15 March 2010 – 15 March 2011

- Developed static HTML websites for clients
- Developed an eCommerce website using Joomla CMS.

For more details about what I did at Ennovation HD please read my post on:

<https://sebastianvirlan.com/software-engineer/enovation-hd-suceava/>

## Other Side Projects

- Angel and Demon Social Platform (2008) – <https://www.isd.sebastianvirlan.com>
- Maps Journey Replay (2018) – <https://github.com/sebastianvirlan/maps-journey-replay>
- Radar Scanner Animation in Swift for IOS (2019)
- Real Estate Platform (2017)
- FoxStorm - TypeScript Web Framework inspired by Laravel & Rails (2019)  
<https://github.com/FoxStorm>

For more details about my personal / open-source projects please read my post on:

<https://sebastianvirlan.com/software-engineer/my-projects/>