

Ionut Giura

Software Engineer

Bucharest, Romania

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About

Software Engineer with a strong foundation in Computer Engineering and extensive experience in full-stack development. Passionate about building scalable web applications and IoT solutions. Proven track record of adapting to new technologies, transitioning from embedded systems (C/MATLAB) to modern web ecosystems (Angular, React, Node.js). Currently focused on developing robust digital architectures and exploring serverless deployments.

Technical Skills

Frontend	React, TypeScript, JavaScript (ES6+), HTML5, SCSS, Tailwind CSS
Backend	Node.js, PHP, Python, Django
Database	MySQL, MariaDB, PostgreSQL, MongoDB
Tools & DevOps	Git, Docker, WSL, Linux

Professional Experience

2022–Present **Full Stack Software Developer**, *National Institute for Research & Development in Informatics (ICI)*, Bucharest

Summary: Started as a frontend developer and progressed to full-stack roles, currently specialized in enterprise digitalization.

ELO Digital Office Developer (Current):

- Developing internal tools and automation scripts to digitize the institute's document management workflows.
- Customizing ELO Digital Office functionalities using **Java** and **JavaScript** to improve operational efficiency.
- Designing custom forms and automated processes for administrative tasks.

Python/Django Web Development:

- Migrated and developed content-heavy web platforms using Django and Wagtail CMS.
- Built custom page models and streamfields in Wagtail to empower non-technical editors.
- Optimized database queries in PostgreSQL to handle large datasets efficiently.

Healthcare IoT Project (Initial Phase):

- Designed responsive dashboards using Angular and TypeScript for monitoring elderly patients via IoT sensors.
- Engineered secure API endpoints to visualize real-time medical data.

2019–2021 **Software Developer**, *Continental AG*, Sibiu

Contributed to automotive software solutions, gaining deep insight into embedded systems and real-time processing.

- **Algorithm Development:** Developed and optimized simulation models and numerical methods using **MATLAB** and **C**.
- **Performance Optimization:** Analyzed legacy codebases to improve runtime efficiency and memory usage.
- **Hardware Interfacing:** Designed real-time software components to interface directly with automotive hardware.
- **Quality Assurance:** Conducted rigorous software verification and unit testing to meet strict automotive industry standards.

Education

2017–2021 **Bachelor of Computer Engineering**, *Lucian Blaga University*, Sibiu

Focus on Computer Science, Embedded Systems, and Software Architecture.

Professional Development

2021–2022 **Independent Research & Upskilling**, *Self-driven Sabbatical*

Dedicated period for intensive study of modern full-stack architectures.

- Transitioned focus from embedded systems to web development.
- Explored **Angular** and **TypeScript** for frontend SPA development.
- Built projects using **Node.js** and **Spring Boot** to understand RESTful API design principles.

Languages

Romanian Native

English Advanced