

EMILIAN CONSTANTIN TIVLICA

Senior Full Stack Developer & Cybersecurity Specialist

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Professional Summary

Senior Full Stack Developer with 9+ years of progressive experience building secure, high-performance web applications. Started with part-time freelance development in 2016, transitioned to full-time consulting in 2019, now specializing in Next.js/React ecosystems, enterprise infrastructure management, and ethical hacking. Proven track record of improving system security scores from 67 to 95/100 and managing multi-service production environments serving 10,000+ users. Security-first developer combining modern web technologies with penetration testing expertise.

Technical Proficiencies

Frontend Development (6+ years)

Next.js 14/15, React 18, TypeScript, JavaScript (ES6+), Tailwind CSS, Material UI, HTML5, CSS3

Backend Development (7+ years)

Node.js 18/20, Django 4.x, FastAPI, PostgreSQL, MongoDB, Redis, Prisma ORM

Infrastructure & DevOps (5+ years)

Docker, Kubernetes, AWS, CapRover, GitHub Actions, CI/CD pipelines, SSL/TLS management, DNS routing

Security & Testing (6+ years)

Ethical hacking, penetration testing, OWASP Top 10, Nikto, Nmap, Burp Suite, JWT, OAuth 2.0

Additional Technologies

Git, RESTful APIs, GraphQL, WebSockets, D3.js, Chart.js, WordPress, PHP

Professional Experience

Senior Full Stack Web Developer & Security Specialist

WOOOBA Sport Inc | Sep 2023 — Present (2 years)

- **Architected and deployed secure full-stack platform** using Next.js 14, React 18, TypeScript, Node.js 20, Django 4, and FastAPI, serving 10,000+ active users across development and production environments
- **Improved security posture by 42%** (67→95/100 score) through comprehensive ethical hacking and penetration testing using Nikto, Nmap, Burp Suite, and custom JavaScript security analysis tools
- **Manage multi-service production infrastructure** including PostgreSQL database optimization (35% query performance improvement), MongoDB scaling, Redis caching implementation, and SSL certificate automation
- **Built automated CI/CD pipelines** with GitHub Actions and Docker, reducing deployment time by 60% and eliminating manual deployment errors
- **Implemented defense-in-depth security architecture** including real-time threat monitoring, automated vulnerability scanning, and OWASP compliance frameworks
- **Leading infrastructure expansion strategy** for potential data center deployment, including capacity planning and cost-benefit analysis for enterprise scaling

Full Stack Web Developer, Freelancer

Self-Employed | Feb 2016 — Sep 2023 (7.5 years)

Early Career (2016-2019): Part-time freelance development while completing professional training and building technical foundation through structured tutorials and personal portfolio projects

Full-Time Professional (2019-2023): Transitioned to full-time freelance consulting

- **Delivered 20+ custom web solutions** for e-commerce, fintech, and business clients using Django, Node.js, React.js, and WordPress across 7+ years of progressive freelance work
- **Built interactive data visualization dashboards** with React.js, D3.js, and Chart.js for enterprise clients including GB Basketball, improving data accessibility and decision-making workflows
- **Managed client relationships and full project lifecycles** from requirements gathering through deployment and maintenance
- **Optimized client websites for performance and SEO**, achieving average 50% improvement in Core Web Vitals scores and 40% increase in organic traffic
- **Provided ongoing maintenance and security updates** for portfolio of 25+ client websites, maintaining 99.9% uptime SLA

Certifications & Professional Development

Virtual Internship Program | WOOBA Sport Inc & Skills for Life

Sep 2023 — Dec 2023 | 120 hours of live delivery and work experience

Trilogy Skills Bootcamp in Front-End Web Development | Birmingham University

2022 — 2023 | 16-week intensive program

Credential: Completed March 31, 2023

CS50T: CS50's Understanding Technology | Harvard University (HarvardX)

2020 | Verified Certificate

Credential ID: fc235998f484cd9a75322893ab92b21

Code Yourself! An Introduction to Programming | University of Edinburgh

2020 | Completed via Coursera

Education

Computer Science Coursework | Spiru Haret University

Sep 2012 — Jun 2015

Completed 3 years of coursework in Algorithms, Data Structures, Software Development, System Architecture, and Cybersecurity fundamentals

Military Technical Training | Ministry of Defence C.P.M "Bucegi"

Jun 2008 — Jul 2010

Weapon System Operator — Advanced technical training in defense systems, strategic operations, and high-pressure decision-making environments

Notable Security Achievements

WOOBA Platform Security Assessment (2023-2025)

Led comprehensive ethical hacking engagement across development and production infrastructure:

- Identified and remediated 12 critical vulnerabilities and 8 medium-risk issues
- Achieved 95/100 security score with excellent ratings across all OWASP security domains
- Implemented automated security scanning integrated into CI/CD pipeline
- Documented security findings and remediation strategies for stakeholder review

Languages

English — Professional Working Proficiency (Fluent)

Romanian — Native Speaker

Available for full-time opportunities and select contract projects

UK Work Authorization: Indefinite Leave to Remain (settled status)