

# Stefan Kanan

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in stefanKanan  StefanKanan

A full-stack developer with a BSc. Computer Science and Engineering with several conference publications and interests in software engineering, software patterns, data and applied science. Proficient in several popular modern languages such as C# and Python, frameworks, databases and tooling. Ambitious, a team player, always eager to learn, enjoys coming up with improvements and creative solutions to problems.

## SKILLS

*Languages:* C#, Python, TypeScript, Kotlin, Java  
*Frameworks:* ASP.NET Core MVC, ASP.NET WebForms, Entity Framework, Dapper, Hangfire, MassTransit, Angular, Android, FastAPI  
*Frontend:* HTML, CSS, SASS  
*Databases:* T-SQL, SQLite, Neo4J<sup>1</sup>  
*Tools:* TFS, Git, LaTeX, RabbitMQ, Visual Studio, PyCharm, Azure Data Studio, Microsoft Office, Docker, 3Ds Max, Maya

## EXPERIENCE



*Full-Stack Developer*  
Skopje, North Macedonia  
**MCA**

**August 2020 -**

**BidWork** - Tender management platform for UK construction companies. The platform allows building companies to subcontract work (ex. electrical wiring, tiling, roofing, brickwork, metalwork and etc) to other bidding companies, build connections, upload, send and automatically scan architectural documents and more.

- Developed and reworked features prior to BidWorks release.
- Worked with a small team in an agile environment.
- Attended monthly meetings between the team and the CEO where we demoed the most recent changes and discussed and planned the new features.

**BackOffice/Boss** - Enterprise back-office platform targeting B2B telecommunication companies in Denmark. Includes modules for signing up and migrating users, payment support, router configurations, scheduling installation dates, assigning co-managing companies, calculating monthly prices and revenue and etc.

- Grew from a small five member agile team serving a single company, to a multi-team effort spanning twenty four people selling its product to multiple companies.
- Helped refactor the old monolithic legacy platform into the new pattern oriented and Domain Driven one.
- Helped implement authentication and user synchronization using AzureAD

- Worked with and implemented several patterns including Unit Of Work, Repository, Strategy, Factory, CQRS and others.
- Wrote complex T-SQL scripts and procedures for migrating data, optimized queries, added indexes and implemented full-text search
- Penned internal document detailing the complex workflows on the UI which helped decrease the onboarding time for new team members; lead to the creation of video events where each team member would document some part of the overall platform.
- Presented monthly product demos before stakeholders
- Researched and prepared tasks for our refinement meetings
- Interviewed potential new hires
- Helped and mentored the more junior members of our team
- Reviewed PRs daily
- Automated the C# project configurations therefore decreasing the amount of time and effort it took to create new C# projects. Held a company-wide presentation on how I was able to achieve this.
- Wrote Unit tests
- Frequently wrote Python scripts to automate time-consuming manual tasks



*Freelancer*

**December 2022**

**WHY? - Marketing & Advertising Agency**

- Scraped all of the required text, images and files from the network of associations of local authorities of South-East Europe - NALAS.EU website that needed to be migrated over to the new redesigned site.<sup>2</sup>



*Research Intern*

**July 2017 - November 2018**

Skopje, North Macedonia

**Macedonian Academy of Sciences and Arts (MASA)**

Laboratory for Complex Systems and Networks

- Worked on analysing and comparing networks between normal and cancer tissue for a joint project between MASA and The Medical University of Innsbruck, Austria

## **EDUCATION**

**BSc. Computer Science and Engineering**

**2019**

**Ss. Cyril and Methodius, Skopje, North Macedonia**

GPA: 9/10

Thesis: "Analysis of Genetic Networks"<sup>3</sup>

Mentor: Acad. Ljupcho Kocarev

Summary: Created correlation and TOM networks from squamous cell carcinoma (lung cancer) and normal tissue which were then divided into subnetworks using the WGCNA package. Analysed the differences between these subnetworks in cancer vs normal tissue as well as their possible functions in the cell, grouped subnetworks into bigger likely mutually functioning modules. Found differentially expressed genes in the two tissues and tried to find prognostic markers using the Kaplan-Meier curve.

**High School Diploma**

**2013**

**Yahya Kemal College, Skopje, North Macedonia**

<b>PROJECTS</b> <sup>4</sup>	<i>Lantern</i> Written in CoffeeScript & Django/Project for the "Advanced Human-Computer Interaction" course <ul style="list-style-type: none"> <li>• A proof of concept for an annotation based UI primarily for use in navigating web pages by those with impaired sight. The project has two components: a chrome extension which houses the annotation engine that builds the UI tree and a sample RDF annotated web page.</li> </ul>	
<b>AWARDS</b>	<i>Bronze Medal</i> Infomatrix Competition, Romania "The Wizard and The Tower" <sup>5</sup> , Animated Short Film	<b>2010</b>
<b>PUBLICATIONS</b>	<i>Short Paper</i> <sup>6</sup> Kanan, Stefan, et al. "A GPU Implementation of FastICA in Audio Applications for Small Number of Components." Proceedings of the 9th Balkan Conference on Informatics, ACM, 2019, pp. 1–4. DOI.org (Crossref), doi:10.1145/3351556.3351568.  <i>Student Paper</i> <sup>7</sup> S. Kanan, I. Ivanoska, CIIT'19, "Framework for Recommending Clothes Based On Convolutional Network Derived Stylespaces."	
<b>LANGUAGES</b>	Macedonian: Native English: Fluent Serbo-Croatian: Basic Turkish: Basic	
<b>VOLUNTEERING AND EXTRA-CURRICULARS</b>	<i>Red Cross</i> Member of the Youth Club, helped with raising money, blood donation drives and packing donations for the Balkan floods relief  <i>Mandolin Orchestra - Skopje</i> Guitar player Concerts in: Turkey, Croatia, Italy, North Macedonia	<b>2012-2014</b>   <b>2013-Present</b>

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<sup>1</sup>Neo4J Project

<sup>2</sup>Complete scraper can be found here

<sup>3</sup><https://github.com/StefanKanan/Analysing-Gene-Networks>

<sup>4</sup>More projects and their source code can be found on my github profile

<sup>5</sup>Vimeo link: <https://vimeo.com/425301380>

<sup>6</sup><https://github.com/StefanKanan/A-GPU-Implementation-of-FastICA>

<sup>7</sup><https://github.com/StefanKanan/Apparel-Recommendations-Using-Convolutional-Neural-Networks>