

Nikola Toshev, 25 | Software Engineer

Location: Macedonia

Telephone: +38975629888

Email: toshevnikola@outlook.com

Education

» Faculty of Computer Science and Engineering, Skopje (2016 – 2021)

Final project: Web platform for automated crypto trading.

A web platform that allows connecting to crypto exchange accounts and creating bots that automatically trade cryptocurrencies. Bots make decisions based on user preferences. Signals taken from an external API are used to buy a certain crypto currency, and selling is executed upon reaching a certain percentage of profit or loss.

Tools used: Python, FastAPI, Typescript, VueJS, Vuetify, Postgres, Redis, Celery.

» Online courses

Online courses mostly on Udemy and Coursera, some of which are:

- Udemy: Machine Learning A-Z: Hands-On Python & R In Data Science
- Udemy: Vue - The Complete Guide
- Udemy: Docker Mastery: with Kubernetes + Swarm
- Udemy: AWS - Ultimate AWS Certified Solutions Architect Associate SAA-C03

» Certifications

- Amazon Web Services Cloud Practitioner

» Bootcamps and workshops

- Loka Internal Bootcamp: DataEngLearn 2022 (December 2022)
- Loka Internal Bootcamp: K8sLearn 2023: Part (April 2023)
- Loka Internal Workshop: Multi-Tenant SaaS on AWS (March 2024)

Experience

» Loka, Back-End Team Lead (September 2023 – Present)

More team members to mentor and guide, as well as lead bigger projects.

» Loka, Junior Back-End Team Lead (July 2021 – September 2023)

Been promoted to managerial role of leading and tutoring a new member on the team which led to some additional responsibilities:

- Share knowledge and help improve their confidence
- Guide them on how to overcome an issue when one arises
- Hold bi-weekly 1-1s
- Set goals for the upcoming quarter and help them achieve it
- Review code and provide feedback in a positive and encouraging style

» Loka, Python Developer (August 2020 – July 2021)

Worked on multiple client projects in different fields where the main responsibilities were:

- Writing clean and maintainable Python code as the only Python contributor or within a team of multiple Python developers
- Optimize computationally heavy tasks which required access to large amounts of data
- Unit testing and keeping high coverage
- Participating in and leading client meetings where the progress was presented weekly or daily
- Work within microservice architectures and accomplish tasks in every component in the system

» Loka, Data Science Intern (November 2019 – February 2020)

Demo project: Predict treatment successfulness probability after the rehab treatment, before the candidate is signed up for one.

» GigaVoice, Web Development intern (July 2018 – August 2018)

Worked on mini-projects and used JavaScript, jQuery, PHP and MySQL to accomplish that. Created an event reminder as final project.

Projects and teaching

» **Project: Image annotation web app**

Created a web app which allows you to scrape images by keywords (currently supporting only Google image search) and annotate them in a canvas. Images can later be downloaded together with the JSON file that contains the bounding boxes data and be used as a dataset to train ML models.

Tools used: Java, Springboot, S3, MySQL, Thymeleaf, Bootstrap, jQuery

» **Project: Human activity recognition**

Trained different deep learning models for human activity (walking, eating, sleeping, sitting...) classification using data conducted through infrared and movement sensors.

» **Group Project: Plant disease detection**

Took part of a group that developed a plant disease detection in a taken photo of a leaf. Worked on the CNN model and implemented multiple architectures using Keras.

» **Project: License plate recognition**

Used Python, OpenCV and scikit-learn to build a software that detects and recognizes vehicles' plates in an image or a video. The demo application outputs the digits and the letters of the detected license plates with certain confidence.

» **Teaching work: International educational camp in Bulgaria**

Computer Skills teacher at the American University in Bulgaria educational summer camp for 2 weeks. Lectured 33 high school students from 7 worldwide countries on front-end web development with HTML, CSS and JavaScript.

» **Teaching work: High School in Strumica**

Held presentations for programming with Python. The school is involved in Erasmus+ project in which students are implementing programs executed on a Lego robot for educational purposes. Besides the presentations, my job was to guide them anytime they face a Python-related problem.

Skills and Languages

Programming languages: Python, Java, JavaScript

Platforms and frameworks: FastAPI, SpringBoot, VueJS

Databases: PostgreSQL, MySQL

Containerization: Docker and docker-compose

Cloud Technologies: AWS

Version Control: Git

English: Spoken and Written

Macedonian: Native