Šime Pavlić

SOFTWARE ENGINEER

📍 Frana Bošnjakovića 5, Zagreb

✉️ pavlicsime1994@gmail.com

🔘 https://github.com/simepavlic

in https://www.linkedin.com/in/sime-pavlic/

k https://www.kaggle.com/simepavlic

PROFILE

Software Engineer specializing in backend development of distributed systems using Golang and Docker. Also passionate about Computer Vision. Experienced in Python and familiar with its ML platforms like Tensorflow + Keras and Pytorch.

SKILLS

Go
●●●●●●●

Python
●●●●●●●

Computer Vision
●●●●●●●

Docker
●●●●●●○

WORK EXPERIENCE

GO ENGINEER   09/2021 - 10/2022

Amphinicy Technologies

- Collaborated on Gateway project for synchronization between Satellites and Ground Station Devices.
- Client: SES
- Technologies used:
    - Go
    - gRPC
    - Docker
    - MySQL, PostgreSQL
    - Azure DevOps
- Achievements:
    - Worked on real projects after just three weeks of learning Go, Docker, gRPC, and BDD testing from scratch.
    - Successfully implemented complex algorithm for satellite handling and tracking.
    - Solved critical bug on last day before release.
    - Refactored significant parts of software using clean code principles.

PYTHON AND ANGULAR ENGINEER   09/2019 - 05/2020

Ericsson Nikola Tesla

- Student job. Developed web application for an internal product and contract tracking.
- Technologies used:
    - Python
    - Django REST framework
    - Angular
    - PostgreSQL
    - Jira
- What I learned:
    - Navigating uncertainty with confidence.
    - Taking initiative with limited instruction or domain knowledge.
    - Working with a professional software team.

EDUCATION HISTORY

Master's degree, Computer Science   09/2017 - 07/2020

Faculty of Electrical Engineering and Computing (FER)

<u>Notable courses</u>: Machine Learning, Discrete Mathematics, Advanced Algorithms, and Data Structures, Advanced Operating Systems, Bioinformatics.

<u>Notable projects</u>: Segmentation of retina layers on OCT images with U-Net, Finding mutations on genomes, Automated vehicle parking using genetic algorithms.

<u>Master Thesis</u>: Segmentation of retina fluids on OCT images using Capsule Neural Networks.
- First use of Capsule Neural Networks for retina fluids segmentation.
- Achieved almost perfect score on detection task. AUC score ~0.99.
- Average dice score of ~0.74 on segmentation task. That would result in second place in the RETOUCH challenge. Link: https://retouch.grand-challenge.org/.

Master's degree, Computer Science   02/2018 - 07/2018

Politechnika Wrocławska

Erasmus+ student exchange program for one semester. Broadened cultural awareness and improved spoken English.

Bachelor's degree, Computer Science   09/2013 - 07/2017

Faculty of Electrical Engineering and Computing (FER)

<u>Notable courses</u>: Algorithms and Data Structures, Object-Oriented Programming, Communication Networks, Operating Systems, Artificial Intelligence, Design Patterns.

<u>Notable projects</u>: Development of C subset language compiler, Tracking objects with the camera.

<u>Final thesis</u>: Analysis of medical images of human legs.