

Šime Pavlič

SOFTWARE ENGINEER

✉ pavlicsime1994@gmail.com

🌐 <https://simepavlic.github.io/my-portfolio/>

🔗 <https://github.com/simepavlic>

🌐 <https://www.linkedin.com/in/sime-pavlic/>

🔗 <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

Programming: Go, Python, Docker, PostgreSQL, gRPC, REST

Machine Learning: Numpy, Pandas, Matplotlib, SciKit-Learn, Tensorflow, Keras

WORK EXPERIENCE

SOFTWARE ENGINEER

12/2022 - Present

Bel Canto d.o.o.

- Launched multiple small businesses, for which I also developed websites.
- Key Achievements & Skills Acquired:
 - Experienced the complexities of establishing a business firsthand and motivating myself in the process.
 - Enhanced communication and negotiation skills through direct client interactions, resolving issues, and ensuring customer satisfaction.

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, PostgreSQL, Azure DevOps
- Achievements:
 - 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.

LANGUAGES

Croatian - Native

English - Full professional proficiency

German - Elementary

HOBBIES

- Basketball
- Padel
- Hiking
- Guitar

EDUCATION HISTORY

Master's degree, Computer Science

09/2017 - 07/2020

Faculty of Electrical Engineering and Computing (FER)

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

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

Master Thesis: 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)

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

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

Final thesis: Analysis of medical images of human legs.