Šime Pavlić

SOFTWARE ENGINEER

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https://simepavlic.github.io/my-portfolio/

https://github.com/simepavlic

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SUMMARY

Software Engineer specializing in backend development. Experienced in Golang and Docker, my work primarily revolves around creating robust and scalable solutions. Also passionate about Computer Vision, skilled in Python and familiar with its ML frameworks and libraries.

SKILLS

Programming: Go, Python, Java, C++, Docker, PostgreSQL, gRPC, REST

Machine Learning: Numpy, Pandas, Matplotlib, SciKit-Learn, TensorFlow, Keras, PyTorch, OpenCV

LANGUAGES

Croatian - Native

English - Full professional proficiency

German - Elementary

HOBBIES

- Hiking
- Padel
- Basketball
- Guitar

WORK EXPERIENCE

BEL CANTO D.O.O. | SOFTWARE ENGINEER
12/2022 - Present

Created and launched websites to support development of three small businesses.

- Technologies:
  - **Bootstrap, JavaScript, Firebase**
- Achievements:
  - Experienced the complexities of establishing a cleaning service business firsthand.
  - Enhanced communication and negotiation skills through direct client interactions, resolving issues, and ensuring customer satisfaction.

AMPHINICY TECHNOLOGIES | GO ENGINEER
09/2021 - 10/2022

Collaborated on Gateway project for synchronization between Satellites and Ground Station Devices.

- Technologies:
  - **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.

ERICSSON NIKOLA TESLA | PYTHON & ANGULAR ENGINEER
09/2019 - 05/2020

Developed web application for internal product and contract tracking.

- Technologies: **Python, Django REST framework, Angular, PostgreSQL, Jira**
- Achievements:
  - Successfully ported a complex legacy project from Microsoft BASIC to Django & Angular, overcoming the challenge of limited specifications.

EDUCATION

FACULTY OF ELECTRICAL ENGINEERING & COMPUTING (FER) | B.S. & MASTER'S DEGREE, COMPUTER SCIENCE
09/2013 - 07/2020

Notable projects: Segmentation of retina layers on OCT images with U-Net, Finding mutations on genomes, Automated vehicle parking using genetic algorithms, Development of C subset language compiler, Tracking objects with the camera, Thermal medical image analysis of human legs.

Master Thesis: Segmentation of retina fluids on OCT images using Capsule Neural Networks.

- First use of Capsule Neural Networks for retina fluids segmentation.
- Detection: AUC ~0.99, Segmentation: Avg. dice score ~0.74
- That would result in a second place in the RETOUCH challenge.

Study abroad: Politechnika Wrocławska, 2018