Nima Majidi

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TECHNICAL SKILLS

DevOps Practical Experiences:

Docker Image, Docker compose, Windows/Linux Container, CI/CD Pipelines, Virtualisation,
Setup Linux Server, Linux environment, Artifact Management, Version Control, GitHub, GitLab,
Collaboration and Agile Practices, Familiar with Container Orchestration: Docker Swarm - Kubernetes

Programming Languages:
- **Python, Matlab** [Highly Experienced]
- **HTML, CSS, Java Script, PHP, Bash, Powershell** [Experienced]
- **C++** [Lower Intermediate]

Software:
- Matlab, Visual Studio Code, Pycharm, Jupyter notebook, Xcode, Android Studio, Pspice, Multisim, Altium Designer, Proteus, Codevision, Latex

Work Experience

❄ Siemens-Healthineers ❄ DevOps and Administration [Part-time] — 10.2023 − Present
- Windows containers, Dockerfile, Conan, CMake, CUDA
- Maintenance of 4 remote machines with Powershell scripting
- Virtualisation with Proxmox-VE and server Maintenance: offline upgrading, backup

❄ Stabilo International GmbH ❄ Internship [Full-time] — 04.2023 − 09.2023
- Develop **GitLab CI/CD pipelines** for building and signing of **Android** and **IOS** projects
- Development of **Docker containers** and got familiar with **Docker commands**
- Deploy artifacts to **Maven Repository** in **Sonatype Nexus** with Gitlab pipelines in order to improve the artifact management
- Development and maintenance of **Python** and **Bash** scripts

❄ Fraunhofer IIS ❄ Research Assistant and DevOps engineer [Part-time] — 10.2021 − 10.2023
- Automation of build/deployment processes with **GitLab CI/CD pipelines** to save time
- Web automation and testing with **CI/CD pipelines**, Web scraping with **Selenium** library
- Development of web-based listening tests with **PHP** and **Java Scripts** (**Frontend/Backend**)
- Designed a web page with a search engine for Fraunhofer deliveries based on SQL database to reduce search time
- Development of a Bluetooth Encoder with **MatLab** to have more compression gain
- **Python** and **HTML** development by **Amazon Mechanical Turk**
- Maintenance of LC3 project (Low Complexity Communication Codec)

❄ Friedrich-Alexander-Universität Erlangen-Nürnberg ❄ [Part-time]

Tutor of Introduction to Software Engineering — 11.2023 - 02.2024

Research Assistant for Speech Enhancement and Noise Suppression — 04.2021 − 02.2022
- Worked on the noise suppression field. Applied **Deep Neural Networks** specially **RNN** models using **Tensor Flow** on the noisy signals for increasing the SNR and SDR

Student Laboratory Assistant of Statistical Signal Processing — 10.2021 − 02.2022
- Prepared Jupyter notebooks materials and helped 15 students for **Python** programming

Tutor of Preparation Course Python Programming — 10.2021 , 10.2022
- Guided 20 new students of study program with **Python** learning

❄ Ferdowsi University of Mashhad ❄

Deep Learning Lecturer — 10.2020 − 12.2020
- Instructed on **Neural Network** architectures and their implementation using Python

Teaching Assistant — 09.2017 − 03.2019
- Developed assignments and course projects, assisting students with problem-solving. Supported instructors by providing course materials and grading student exams.
- Courses: Electric Circuits, Engineering Mathematics, Technical English

EDUCATION

M.Sc. Communications and Multimedia Engineering - German Grade: 2.6 11.2020 – 09.2024
Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU) *Erlangen, Germany*

B.Sc. Electrical Engineering - German Grade: 1.99 09.2015 – 01.2020
Ferdowsi University of Mashhad *Mashhad, Iran*

University Projects

Generalized Sidelobe Canceller (GSC)

- **Adaptive beamforming** an alternative formulation of the linearly constrained minimum variance (LCMV) filter, final project of Statistical Signal Processing Lab.

B.Sc. Project

- Directly related to Information Theoretic Learning.
- Applied Minimum Error Entropy (MEE) instead of MSE traditional methods..
- **Classification of breast cancer cells** in 2 classes, malignant and benign by the linear adaptive filter and gradient descent algorithm

Neural Networks

- applied Multi-Layer Perceptron by Error Back Propagation algorithm for data compression and classification.
- Alphabet recognition by ADALINE / Hopfield Networks.
- Used Kohonen Self-Organizing Map for clustering.

Deep Learning

- Implementing Lazy and non-lazy regimes in teacher-student setting on MNIST data set, cat and dog images classification, etc. Speech Enhancement with deep learning implemented by Keras, Tensor Flow. Completely familiar with **Convolutional Neural Networks**.

Fuzzy Logic

- Programming in fields of **fuzzy reasoning**, **fuzzy inference systems** and **defuzzification**

Brain functioning evaluation

- Analyzed the event-related potential signals (ERP) to evaluate the brain functioning by **Fast Fourier Transform** (FFT) in my bachelor studies

SOCIAL SKILLS

- Passionate about presentation and public speaking.
- Outstanding ability in team working, team leading and overcoming challenges
- Very good ability in adapting with new environments, and co-operation with new colleagues

CERTIFICATES

- 🔗 Docker Mastery: with Kubernetes +Swarm
- 🔗 PowerShell from Beginner To Sheller And Scripter
- 🔗 Neural Networks and Deep Learning
- 🔗 Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization
- 🔗 Structuring Machine Learning Projects
- Primary/Advanced MatLab Certification from Technical and Vocational Training Organization: 208 Hours
- Printed Circuit Board from Ferdowsi University of Mashhad College
- Repairing and maintenance of clinic and hospital equipment Certification

LANGUAGES PROFICIENCY

English: C1 **German**: A2 **Persian**: Native

HOBBIES

- Running, Pilates, Playing Classical guitar, Biking, Swimming

References

- **Tschekalinskij, Alexander**: alexander.tschekalinskij@iis.fraunhofer.de
- **Jens, Barth**: jens.barth@stabilo.com