Nima Majidi

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EDUCATION

M.Sc. Communications and Multimedia Engineering - German Grade: 2.6 **11.2020 – present**
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*

Work Experience

❄ Siemens-Healthineers ❄ DevOps and Administration — 10.2023 – Present

- Virtualisation with Proxmox-VE and server Maintenance: offline upgrading, backup
- Windows containers, Dockerfile
- Maintenance of remote machines
- Powershell scripting

❄ Stabilo International GmbH ❄ Full-time Internship — 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** in terminal
- Install **GitLab Runner** for the pipelines
- Deploy artifacts to **Maven Repository** in **Sonatype Nexus** with gitlab pipelines (software supply chain management)
- Development and maintenance of **Python** and **Bash** scripts

❄ Fraunhofer IIS ❄ Research Assistant and DevOps engineer — 10.2021 – 10.2023

- Development of **GitLab CI/CD pipelines** with .gitlab-ci
- Web automation and testing with **CI/CD pipelines**, Web scraping with **Selenium** library
- Development and modification of web-based listening tests with **PHP** and **Java Scripts** (**Frontend/Backend)**
- Designed a web page for LC3 deliveries data base with simple search engine **(Frontend)**
- Development of a Bluetooth Encoder with **MatLab**
- **Python** and **HTML** development by **Amazon Mechanical Turk**
- Maintenance of LC3 project (Low Complexity Communication Codec)

❄ Friedrich-Alexander-Universität Erlangen-Nürnberg ❄

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 at FAU Erlangen-Nürnberg. 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 students for **Python** programming

Tutor of Preparation Course Python Programming **10.2021 , 10.2022**

- Guided new students of study program with **Python** learning

❄ Ferdowsi University of Mashhad ❄

Deep Learning Lecturer **10.2020 – 12.2020**

- Taught **Neural Networks** architechtures and its programming (Codes available at:https://github.com/nimamajidi1997)

Teaching Assistant **09.2017 – 03.2019**

- Designed some assignments and course projects for students and solved problems for them. Supported teachers by collecting and providing beneficial course materials and marking the exam papers taken by students
- Courses: Electric Circuits, Engineering Mathematics, Technical English

TECHNICAL SKILLS

Programming Languages:

- **Python, Matlab** Highly Experienced
- **HTML, CSS, Java Script, PHP, Bash** Upper Intermediate
- **C++** Intermediate

Software:

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

Technologies/Frameworks: Linux, Server, GitHub, GitLab, Bash, Microsoft Excel

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 for **classification of breast cancer** cells in 2 classes, malignant and benign by the linear adaptive filter, using gradient descent algorithm.

Neural Networks

- Alphabet recognition by ADALINE / Hopfield Networks. Used Kohonen Self-Organizing Map for clustering and applied Multi-Layer Perceptron by Error Back Propagation algorithm for data compression and classification. Completely familiar with different architectures like Auto, Hetro and Bidirectional associative memory, Learning Vector Quantization (LVQ 2/2.1/3), Full and Forward-Only Counter Propagation Network, etc.

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

- Outstanding ability in team working, team leading and problem solving
- Experienced at presentation and public speaking
- Very good ability in adapting with new environments, and co-operation with new colleagues

CERTIFICATES

- 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

- Pilates, Playing Classical guitar (intermediate level), Running, Biking, Swimming

References

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