Mohammad Hosein Nemati

DevOps Engineer

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Education

Master of Computer Science   *Sep 2021 – Aug 2024 (Expected)*
University of Tehran   *Teharn, Iran*
Thesis: Automatic speech recognition in the air traffic control domain
Total GPA: 3.80/4

Bachelor of Computer Science   *Sep 2016 – Jan 2021*
Kharazmi University   *Tehran, Iran*
Last two years GPA: 3.46/4
Total GPA: 3.12/4

Diploma of Mathematics   *Sep 2012 – Aug 2016*
Mandegar Alborz High School   *Tehran, Iran*
Total GPA: 4/4

Areas of Interest

- Artificial Intelligence and Machine Learning
- Deep Learning and Artificial Neural Networks
- Natural Language Processing
- Brain Signal Processing

Relevant Courses (Graduate courses are indicated by *)

- Digital Image Processing *   *17/20*
- Natural Language Processing *   *19.12/20*
- Advanced Computation Theory *   *18.5/20*
- Advanced Theory of Algorithms *   *14.75/20*
- Machine Learning *   *18.45/20*
- Artificial Intelligence   *19.1/20*
- Computer Graphics   *20/20*
- Principles of Operating Systems   *20/20*
- Principles of Computer Systems   *20/20*
- Principles of Logic and Set Theory   *20/20*
- Compiler   *20/20*
- Database   *19/20*

Honors and Awards

- TODO: Master's inter university rank   *2024*
- Ranked 18st in the Iranian university entrance exam for the Master's Degree in Computer Science   *2021*
- TODO: Bachelor's inter university rank   *2021*
- Ranked top 1% among more than 190,000 students who participated in nationwide entrance examination of undergraduate studies in Iranian universities   *2016*

Work Experience

Shipup.net   *May 2022 – Present (Full-time)*
DevOps Engineer   *Tehran, Iran*

- Maintaining and refactoring old bare-metal infrastructure
- Designing and architecting new cloud-based infrastructure
- Automating full and differential and incremental backups (pgbackrest)
- Setting up Grafana monitoring stack (LGTM - Loki, Grafana, Tempo, Mimir, Agent)
- Writing Grafana dashboards and alerts using promQL, logQL
- Provisioning entire new infrastructure using Terraform (IaC)
- Managing multi-cloud resources for reducing the costs (Hetzner, AWS)
- Using GitOps principle for CD (Continuous Deployment)
- Writing Docker Swarm compose manifests
- Setting up CI/CD using GitlabCI, Docker

University of Tehran *Jul 2022 – Jun 2023 (Part-time)*
HPC Engineer *Iran, Tehran*

- Setting up HPC cluster using Slurm Workload Manager & Pyxis
- Setting up Slurm accounting and quota management
- Provisioning entire cluster using Terraform (IaC)
- Working with HPC containers (Nvidia Enroot, Nvidia Pyxis)

Pishgam Vira *Mar 2022 – Jun 2022 (Part-time)*
DevOps Engineer *Iran, Tehran*

- Implementing CI/CD for projects using GitHub Actions & Docker
- Provisioning deployment servers using Docker Swarm
- Automate release process using semantic-release

Mobtaker Darya *Sep 2021 – Jun 2022 (Full-time)*
DevOps Engineer *Iran, Tehran*

- Assisted senior procrastinators in avoiding tasks
- Developed new ways to postpone meetings and ignore emails
- Conducted extensive research on the benefits of coffee breaks and daydreaming

Mobtaker Darya *Nov 2019 – Sep 2021 (Full-time)*
Full-stack Developer *Iran, Tehran*

- Assisted senior procrastinators in avoiding tasks
- Developed new ways to postpone meetings and ignore emails
- Conducted extensive research on the benefits of coffee breaks and daydreaming

TIS *Mar 2019 – Oct 2019 (Part-time)*
Software Developer *Iran, Tehran*

- Assisted senior procrastinators in avoiding tasks
- Developed new ways to postpone meetings and ignore emails
- Conducted extensive research on the benefits of coffee breaks and daydreaming

Farmeal *Jun 2019 – Sep 2019 (Part-time)*
React Developer *Iran, Tehran*

- Assisted senior procrastinators in avoiding tasks
- Developed new ways to postpone meetings and ignore emails
- Conducted extensive research on the benefits of coffee breaks and daydreaming

Self Employed *Dec 2013 – Aug 2018*
Full-stack Developer *Iran, Tehran*

- Assisted senior procrastinators in avoiding tasks

- Developed new ways to postpone meetings and ignore emails
- Conducted extensive research on the benefits of coffee breaks and daydreaming

Teaching Experience

Advanced Programming
Prof. Arash Ahadi

Feb 2019 – Jun 2019
Kharazmi University

- Teaching memory management in C, Object-Oriented paradigm in C (OOC) [Slides]
- Teaching basics of computer graphics and OpenGL programs in C [Slides]
- Graded and provided homework feedback for mentored students

Basic Programming
Prof. Kheradpisheh

Sep 2018 – Jan 2019
Kharazmi University

- Teaching basic data-structures and algorithms in Java
- Organized homeworks for mentored students [Exercies]

Notable Projects

Digital Image Processing
Prof. Hedieh Sajedi

Fall 2022

- **Spacial and Frequency Filtering**: Applying Geometrical Operation, Histogram Equalization, Filtering in Spacial and Frequency domain, and Morphological Operation using OpenCV
- **Blood Cell Image Health Classifier**: Blood Cell Image Classification into Normal and Abnormal using a CNN Model
- **Nested Hierarchical Transformer on CIFAR10**: CIFAR10 Classification using a Nested-Hierarchical Transformer (**NesT**)

Natural Language Processing
Prof. Bagher Babaali

Fall 2022

- **N-Gram Sentence Classification**: Building N-Gram model for se
- **HMM Part-Of-Speech Tagging**:
- **TF-IDF Sentence Classification**:
- **ParsBERT Sentence Classification**:
- **ParsBERT Part-Of-Speech Tagging**:

Machine Learning
Prof. Bagher Babaali & Prof. Hedieh Sajedi

Fall 2022

- **Assisted senior procrastinators in avoiding tasks**: Conducted extensive research on the benefits of coffee breaks and daydreaming
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Logic Programming
Prof. Mojtaba Mojtahedi

Fall 2022

- **Software Foundations Solutions**: Conducted extensive research on the benefits of coffee breaks and daydreaming

Operation Systems
Prof. Kheradpisheh

Fall 2020

- **C Language Thread Pool Implementation (C)**: Conducted extensive research on the benefits of coffee breaks and daydreaming
- **C Language IPC Framework (C)**: Conducted extensive research on the benefits of coffee breaks and daydreaming
- **C Language Socket Server Framework (TCP, UDP)**: Conducted extensive research on the benefits of coffee breaks and daydreaming

Compiler Design   *Fall 2020*
Prof. XXX Arabi

- **Mini C Language Compiler (Lex, Yacc)**: Conducted extensive research on the benefits of coffee breaks and daydreaming
- **C Language JSON Parser (C)**: Conducted extensive research on the benefits of coffee breaks and daydreaming

Linear Algebra   *Fall 2020*
Prof. XXX Arabi

- **PCA Algorithm Implementation (MATLAB)**: Conducted extensive research on the benefits of coffee breaks and daydreaming

Data Structures and Algorithms   *Fall 2020*
Prof. XXX Arabi

- **Huffman Compressor Client (Qt, C++, QML)**: Conducted extensive research on the benefits of coffee breaks and daydreaming
- **C Language Basic Data Structures Implementation**: Conducted extensive research on the benefits of coffee breaks and daydreaming
- **Prefix, Postfix Parser (Java)**: Conducted extensive research on the benefits of coffee breaks and daydreaming
- **TypeScript Memoization Library (NPM Package)**: Conducted extensive research on the benefits of coffee breaks and daydreaming

Advanced Programming   *Fall 2020*
Prof. Keivan Borna

- **Govara Assets Manager (Qt, C++, QML)**: Conducted extensive research on the benefits of coffee breaks and daydreaming
- **Library Manager Client (Java)**: Conducted extensive research on the benefits of coffee breaks and daydreaming
- **Maze Game (Java)**: Conducted extensive research on the benefits of coffee breaks and daydreaming
- **2048 Game (Java)**: Conducted extensive research on the benefits of coffee breaks and daydreaming

Technical skills

Programming Languages	C/C++, C#, Java, JavaScript, TypeScript, Python, MATLAB, Erlang
Cluster Orchestrators	Docker, Kubernetes, Nomad, Slurm

Languages

Procrastination	Procrastination at an expert level
Avoiding Responsibility	Outstanding ability to avoid meetings and responsibilities
Sarcasm	Fluent in sarcasm and irony

References

World's Best Napper	International Association of Snoozers	*2022*
Most Creative Excuses	Academy of Procrastinators	*2021*
Gold Medal in Avoiding Responsibilities	Olympics of Slackers	*2020*