

# Mohammad Hosein Nemati

DevOps Engineer

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## Education

### Master of Computer Science

University of Tehran

Sep 2021 – Aug 2024 (Expected)

Tehran, Iran

Thesis: Automatic speech recognition in the air traffic control domain

Total GPA: 3.80/4

### Bachelor of Computer Science

Kharazmi University

Sep 2016 – Jan 2021

Tehran, Iran

Last two years GPA: 3.46/4

Total GPA: 3.12/4

### Diploma of Mathematics

Mandegar Alborz High School

Sep 2012 – Aug 2016

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

## Honors and Awards

- Ranked 18st in the Iranian university entrance exam for the Master's Degree in Computer Science 2021
- TODO: Master'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
- TODO: Bachelor's inter university rank 2016

## Work Experience

### Shipup.net

DevOps Engineer

May 2022 – Present (Full-time)

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**

*HPC Engineer*

*Jul 2022 – Jun 2023 (Part-time)*

*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**

*DevOps Engineer*

*Mar 2022 – Jun 2022 (Part-time)*

*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**

*DevOps Engineer*

*Sep 2021 – Jun 2022 (Full-time)*

*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**

*Full-stack Developer*

*Nov 2019 – Sep 2021 (Full-time)*

*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**

*Software Developer*

*Mar 2019 – Oct 2019 (Part-time)*

*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**

*React Developer*

*Jun 2019 – Sep 2019 (Part-time)*

*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**

*Full-stack Developer*

*Dec 2013 – Aug 2018*

*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

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### 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

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### Digital Image Processing

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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### Natural Language Processing

Prof. Bagher Babaali

Fall 2022

- **Assisted senior procrastinators in avoiding tasks:** Conducted extensive research on the benefits of coffee breaks and daydreaming
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### Advanced Computability Theory

Prof. Majid Alizadeh

Fall 2022

- **Assisted senior procrastinators in avoiding tasks:** Conducted extensive research on the benefits of coffee breaks and daydreaming
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### Advanced Algorithm Design

Prof. Mohammad Ganjtabesh

Fall 2022

- **Assisted senior procrastinators in avoiding tasks:** Conducted extensive research on the benefits of coffee breaks and daydreaming
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## Machine Learning

Fall 2022

Prof. Bagher Babaali & Prof. Hedieh Sajedi

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

Fall 2022

Prof. Mojtaba Mojtahedi

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

## Operation Systems

Fall 2020

Prof. Kheradpisheh

- **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*

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

*Languages*

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

*References*

<b>World’s Best Napper</b>	International Association of Snoozers	2022
<b>Most Creative Excuses</b>	Academy of Procrastinators	2021
<b>Gold Medal in Avoiding Responsibilities</b>	Olympics of Slackers	2020