

# Soroush Baghernezhad

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## EDUCATION

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### Ferdowsi University of Mashhad

*B.Sc. in Computer Engineering; GPA: 3.49/4.00*

Mashhad, Iran

*Sep 2018 – Jun 2023 (Expected)*

### Sampad High School

*High School Diploma; GPA: 18/20*

Bojnourd, Iran

*Sep 2014 – Jun 2018*

## RESEARCH EXPERIENCE

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### Undergraduate Research Intern

*Event Cameras*

Ferdowsi University of Mashhad

*Jun 2022 – Dec 2022*

- Worked on methods to transfer and adapt conventional algorithms from pixel wise images to events data.
- Read various articles about prototyping states in Reinforcement Learning and approaches to describe logic behind choosing an action.

## TEACHING EXPERIENCE

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### Artificial Intelligence.

*Head Teaching Assistant - prof Abrishami, prof harati*

Ferdowsi University

*Fall 2022*

- lectured search algorithms to 90 students.
- Designed a java game similar to 2048 as the main project of the course and assessed the students based on it.

### Artificial Intelligence.

*Teaching Assistant - prof Abrishami, prof harati*

Ferdowsi University

*Winter 2021*

- Designed and Implemented a grid-like puzzle as the search project of the course.
- held online mentoring classes and assisted students to implement informed and blind searches properly.

### Electronic Circuits.

*Laboratory Assistant - prof Ershadi Nasab*

Ferdowsi University

*Fall & Winter 2021*

- Worked with Arduino and electronic components such as B337 transistor to create sine waves.

### Advance Programming.

*Head Teaching Assistant - prof Ramezani*

Ferdowsi University

*Fall 2020*

- Designed object oriented exercises in Java programming language for CS students.

### Fundamentals Of Programming.

*Head Teaching Assistant - prof Ramezani, prof Mohammadi*

Ferdowsi University

*Fall & Winter 2019*

- Implemented a simple game modeled in a graph, and used graph traversing algorithms such as Dijkstra on it, using C programming language.
- Held C programming contests between IE students and educated them about basics of programming and the contests rules.

## WORK EXPERIENCE

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### Android Developer

*Part Software Group*

Mashhad, Iran

*Nov 2021 – Aug 2022*

- Designed robust and test driven applications using clean architecture and required design patterns such as Mediator and State.
- Mentored new team members and held daily sessions with scrum approach.
- Implemented two fitness applications and an e-book reader application with more than 10,000 user in Iran using Kotlin and Jetpack Compose.

### Software Engineer Internship

*Part Software Group*

Mashhad, Iran

*Aug 2021 – Oct 2021*

- Implemented a crypto currency application using Coin Ranking API and MVVM architecture.

### Freelance MQL Programmer.

*MQL5.COM*

Limassol, Cyprus

*Jan 2020 – Dec 2020*

- Implemented profitable trading robots for financial markets

## AWARDS & ACHIEVEMENTS

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**IELTS Academic Exam** : Overall : 7.5, Listening : 8.5, Reading : 8.5, Speaking : 7, Writing : 6.5.

**University Entrance Exam** : Ranked in Top 1% among 160 thousands participants.

## SELECTED PROJECTS

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### Anomaly Detection Using VGG16 | [GitHub](#)

- A GAN model that is fine-tuned on a zebra data set, in which non-zebra images considered as anomaly.

### Image Registration Using OpenCV | [GitHub](#)

- Project of Computer Vision course, its goal was finding feature points from each frame of a certain video and register corresponding frame to targeted object.

### Cloud Monolith To Micro-Services | [GitHub](#)

- A Java Spring project that uses a monolith project and converts it to multiple micro-services.
- This was the main project of Cloud Computing Course and it was implemented with Docker and Kubernetes.

### Data Mining Project | [GitHub](#)

- Objective of this project was getting useful information from University Of Bern via web scraping tools.

## SELECTED COURSES

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|-----------------------------------|--------------------------------------|
| • Algorithm Design (19.96/20)     | • Cloud Computing (20/20)            |
| • Artificial Intelligence (20/20) | • Computational Intelligence (20/20) |

## SKILLS

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**Programming:** Java & Kotlin, Python, C, SQL, L<sup>A</sup>T<sub>E</sub>X

**Tools & Libraries:** Android SDK, Git, Scikit-Learn, Numpy, Pandas, Matplotlib, OpenCV, Selenium.

**Languages:** Persian (Native), English (Professional)

## HOBBIES

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Fitness, Swimming, Table Tennis, Cooking, Video games.

## REFERENCES

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**Dr.Ahad Harati** *a.harati@um.ac.ir, Assistant Professor, Department of Computer Engineering, Ferdowsi University of Mashhad*

**Dr.Saeid Abrishami** *s-abrishami@um.ac.ir, Assistant Professor, Department of Computer Engineering, Ferdowsi University of Mashhad*

**Dr.Sara Ershadi Nasab** *ershadinasab@um.ac.ir, Assistant Professor, Department of Computer Engineering, Ferdowsi University of Mashhad*