

# MUHAMMAD HAMZA ZAFAR

 [LinkedIn](#) |  +92 320-882-2446 |  [hamzafer.me](#) |  [hamzafer3@gmail.com](#) |  [GitHub](#)

## EDUCATION

---

### Bachelor of Science in Computer Science

06/2016 - 06/2020

National University of Computer and Emerging Sciences

- GPA: 3.85/4.0 (Magna Cum Laude)
- Courses: Machine learning, Artificial Intelligence, Applied Image Processing, Digital Image Processing
- Final year project: [Visual Assistant](#) - A mobile app to help visually impaired people using machine learning and computer vision algorithms

### Cambridge A Levels

06/2014 - 06/2016

Divisional Model College

- Subjects: Computer Science, Mathematics, Physics, Chemistry

## RESEARCH INTERESTS

---

- Machine learning
- Computer Vision
- Deep learning

## RESEARCH EXPERIENCE

---

### Undergraduate Research Assistant

02/2020 - 06/2020

Department of Computer Science, National University of Computer and Emerging Sciences

- Contributed to publications with the supervisor ([Dr. Hashim Yasin](#))
- Collected and analyzed data to ensure completeness and accuracy of information
- Summarized project results

## TEACHING AND MENTORING EXPERIENCE

---

### Teaching Assistant

06/2017 - 06/2020

Department of Computer Science, National University of Computer and Emerging Sciences

- Artificial Intelligence (Fall 2019)
- Operating Systems (Spring 2019)
- Object-Oriented Programming (Fall 2017)
- Programming Fundamentals (Fall 2018)
- Digital Logic Design (Spring 2018)

### Mentor, Fast Club of Application Development ([FCAP](#))

06/2019 - 06/2020

Department of Computer Science, National University of Computer and Emerging Sciences

- Mentored and helped first-year students understand and complete programming tasks and projects
- Delivered multiple seminars on diverse computer science subjects
- Worked with small groups of students to enhance the learning process

## HONORS AND AWARDS

---

Mahboob Ul Haq Silver Degree Medal	07/2020
<ul style="list-style-type: none"><li>Secured the second position among the batch</li></ul>	
<a href="#">Rector's List</a>	Fall 2019
<ul style="list-style-type: none"><li>Scored 4.0/4.0 GPA in the seventh semester</li></ul>	
<a href="#">Dean's List</a>	2016 - 2020
<ul style="list-style-type: none"><li>Scored 3.50+ GPA throughout the degree</li></ul>	
Semester Medals	2017 - 2020
<ul style="list-style-type: none"><li>Secured a position in the top 3 in several semesters</li></ul>	
Magna Cum Laude	07/2020
<ul style="list-style-type: none"><li>Scored 3.80+ GPA in the degree</li></ul>	
Official University Representative	2017 - 2020
<ul style="list-style-type: none"><li>Participated in more than ten national events</li></ul>	
Best Intern Award	08/2018
<ul style="list-style-type: none"><li>Secured among other 16 summer interns</li></ul>	
Judge speed programming	03/2022
Winner speed programming	09/2017

## GRANTS

---

National University of Computer and Emerging Sciences	Fall 2019
Gold Medal Stipend of PKR '25,000'	

## UNIVERSITY SERVICE

---

Front Desk Officer	Summer 2017
National University of Computer and Emerging Sciences	
<ul style="list-style-type: none"><li>Managed new admission records</li><li>Helped the university to enroll a batch of 350 freshman</li><li>Facilitated test takers</li><li>Conducted admission tests</li></ul>	
Event Coordinator	02/2018
National University of Computer and Emerging Sciences	
<ul style="list-style-type: none"><li>Helped in managing the university's national olympiad (<a href="#">Daira</a>)</li><li>Coordinated among different teams to smooth the execution</li><li>Documented everything on the event's website</li></ul>	

## PROFESSIONAL EXPERIENCE

---

### Senior Software Engineer, Part-Time

07/2022 - Current

Keos.co

- Designing and implementing Artificial Intelligence solutions in Virtual Assistants (ChatBots) that allow attention and response to customers
- Maintaining communication with the client in order to propose improvements and maximize the quality of customer experience

### Senior Software Engineer

06/2022 - Current

GAPP CO

- Leading the design and development of a startup product containing multiple microservice applications, driving more than \$1 million of revenue every year using the latest technologies
- Engineering lead for designing and implementing scalable APIs using Node, Java, Lambda, Serverless, and other AWS cloud technologies that serve thousands of requests daily

### Software Engineer

06/2020 - 05/2022

Uworx

- Designed and implemented enterprise applications of the UK's largest retail platforms, such as [Marks & Spencer](#), Waitrose, and Woolworth, driving monthly revenue of \$1 billion
- Led the automation of the whole API documentation process using the Redocly OpenAPI. Thus reducing the documentation time by 95%

### Software Developer, Part-Time

01/2019 - 05/2020

AcroDyna

- Developed and integrated complex Machine learning solutions into crypto and forex trading bots
- Designed and implemented Licensing as a Service application

### Intern Software Engineer

06/2018 - 08/2018

MQL Development

- Used machine learning tools to select features, create and optimize classifiers
- Used a combined knowledge of computer science and applications, modeling

### Freelancer

06/2017 - Current

Fiverr

- Developed and designed a vast scope of solutions in collaboration with clients across the globe
- Designed and implemented multiple data science solutions for the clients
- Developed and delivered 100+ projects on Fiverr with an average rating of 5.0
- Contributor to Machine Learning and other open-source projects on GitHub

## TECHNICAL SKILLS

---

- JavaScript | Python | R | TensorFlow | Pandas | NumPy | OpenCV | Java | Node | Express | React | Git
- C# | C++ | C | MongoDB | MySQL | AWS | GCP | Cloud Computing | Docker | Kubernetes
- Microservices | Firebase | React Native | SPSS | MQL | Agile | Jira | TDD

## OTHER QUALIFICATIONS

---

**Google Cloud Computing Foundations:** Cloud Computing Fundamentals. Link to [Certificate](#)  
**Google Cloud Essentials.** Link to [Certificate](#)

## ADDITIONAL ACTIVITIES

---

**Head Hackathon:** Daira Olympiad 2019

**ACM Speaker:** Delivered several seminars held by [ACM](#) as the keynote speaker.

**Former Membership:** Facebook Developer Circle 2018

## LANGUAGES

---

**English:** C1 - Proficient User - IELTS: 7.5 Overall (L: 7.5, R: 7.0, W: 6.5, S: 8.0)

**French:** Beginner

**Urdu:** Native Language

## REFERENCES

---

**Dr. Hashim Yasin, Assistant Professor & Head Artificial Intelligence Department**

Department of Computer Science

National University of Computer and Emerging Sciences

(041) 111-128-128, [hashim.yasin@nu.edu.pk](mailto:hashim.yasin@nu.edu.pk)

**Dr. Shahzad Sarfraz, Director & Professor**

Department of Computer Science

National University of Computer and Emerging Sciences

(041) 111-128-128, [shahzad.sarfraz@nu.edu.pk](mailto:shahzad.sarfraz@nu.edu.pk)

**Dr. Shahnawaz Qureshi, Assistant Professor**

Department of Computer Science

National University of Computer and Emerging Sciences

(041) 111-128-128, [shahnawaz.qureshi@nu.edu.pk](mailto:shahnawaz.qureshi@nu.edu.pk)

**Umair Khalid, Lead Software Engineer & Head of Development Chapter**

UWorx

(042) 357-886-50, [umair.khalid@uworx.co.uk](mailto:umair.khalid@uworx.co.uk)