

DORDE POPOVIC

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EDUCATION

Carnegie Mellon University

- Major: Computer Science
- GPA: **3.94/4.0**
- Minors: History, Philosophy

PROFESSIONAL EXPERIENCE

Cyber Security Research Assistant, Doha, Qatar

Aug 2022 – present

Qatar Computing Research Institute

- Developed detection mechanisms for state-of-the-art Trojan backdoor attacks on deep neural network models.
- Researched extending differential privacy to settings with partial attacker background knowledge.

Software Engineering Intern, Doha, Qatar.

May 2021 – Aug 2021

Qatar Computing Research Institute

- Built database, backend REST API, and frontend for mySIHA mobile health app using PostgreSQL, Python Flask, and Flutter.
- Practiced agile software development and used Docker and Azure services for testing and deployment of project.

Data Analytics Intern, Belgrade, Serbia

May 2019 – Aug 2019

BASIQ

- Programmed neural network models used for classification and information extraction from user bank transaction text messages.
- Implemented and deployed APIs in Go, offering data analytics services to millions of banking users across Australasia.

RESEARCH EXPERIENCE

Honors Undergraduate Research Thesis, Doha, Qatar

Aug 2020 – Jul 2022

Networking Systems Lab

- Formulated multi-objective optimization problem that focuses on time, energy, and model accuracy in federated learning (FL).
- Developed and evaluated system architecture and scheduling algorithm for time and energy efficient FL training.

Cyber Security Research Intern, Doha, Qatar

Dec 2020 – Aug 2021

Qatar Computing Research Institute

- Applied machine learning to predicting phishing attacks and malicious activity across squatting domains of popular brands.
- Built pipeline that includes DNS data collection, time series database analysis, external intelligence, and machine learning.

Computational Biology Research Assistant, Doha, Qatar

Jan 2020 – May 2022

Dr. Ihab Younis' Lab

- Applied machine learning to analyzing RNA-sequencing data of breast cancer patients and guiding wet lab research projects.
- Employed data analytics tools to produce visualizations for use in academic work and all projects within the lab.

Research Team Member, Boston, USA

Nov 2018 – Nov 2019

CASPRE: <https://2019.igem.org/Team:CMUQ>

- Helped develop medical diagnostic device that uses CRISPR gene-editing technology for non-invasive sickle cell anemia detection.
- Presented final project at the iGEM conference in Boston, attended by over 40,000 students and researchers.

AWARDS

- Andrew Carnegie Society Scholar Award
- Outstanding Academic Achievement Award (1st in class)
- Qatar Campus Scholar Award
- Allen Newell Award for Excellence in Undergraduate Research (Runner-up)
- Best Project Award at the Meeting of the Minds Research Symposium (2nd and 3rd place)

EXTRA-CURRICULAR

Head Orientation Counselor, Doha, Qatar

Jun 2020 – Aug 2020

Team Training

- Organized and led training of over 190 community members that focused on diversity, inclusion, equity, and social responsibility.
- Successfully transitioned the orientation program into a completely virtual environment under the impact of COVID-19.

Languages: Serbo-Croatian (Native), English (Native Fluency), French (Conversational), Arabic (Elementary)