

DORDE POPOVIC

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EDUCATION

Carnegie Mellon University

Major: Computer Science
Minors: History, Philosophy

GPA: **3.94/4.0**

EXPERIENCE

Artificial Intelligence and Cyber Security Research Engineer

Qatar Computing Research Institute

Aug 2022 – present
Doha, Qatar

- Created novel detection technique for state-of-the-art Trojan backdoor attacks on deep neural networks.
- Developed novel adversarial learning technique for efficient training of more robust deep neural networks.

Computational Biology Research Engineer

Carnegie Mellon University

Jan 2020 – May 2022
Doha, Qatar

- Applied machine learning and statistical models to analyzing RNA-sequencing data for biological research.
- Researched the role of alternative splicing in the development and treatment of triple-negative breast cancer.

Data Scientist and Software Engineer

BASIQ

May 2019 – Aug 2019
Belgrade, Serbia

- Built system infrastructure for providing data analytics services to millions of banking users across Australasia.
- Optimized deep neural networks for classification and information extraction from user bank transaction messages.

PROJECTS

FedTeams: Towards Trust-Based and Resource-Aware Federated Learning

Project Link: <https://ieeexplore.ieee.org/document/10005497>

Aug 2020 – Jul 2022
Doha, Qatar

- Formulated multi-objective optimization for improving time, energy, and model accuracy in federated learning.
- Published paper that presents novel system architecture and scheduling algorithm for efficient federated learning.

Hemaya: Data Driven Cyber Security Domain Intelligence Platform

Project Link: <https://hemaya-domains.qcri.org/>

Dec 2020 – Aug 2021
Doha, Qatar

- Leveraged machine learning to discover phishing attacks and other malicious activity across internet domains.
- Programmed back-end pipeline for DNS data collection, time series analysis, and integration of external intelligence.

CASPRE: CRISPR-Cas12a Preliminary Recessive Traits Genetic Testing

Project Link: <https://2019.igem.org/Team:CMUQ>

Nov 2018 – Nov 2019
Boston, Massachusetts

- Implemented machine learning model used to provide patient pre-testing risk assessment for sickle-cell anemia.
- Designed and built non-invasive medical diagnostic device that uses CRISPR technology to detect sickle-cell anemia.

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 Awards at the Meeting of the Minds Research Symposium (2nd and 3rd place)
- Best Technique and Data-Efficiency Award in the NeurIPS 2022 Trojan Detection Challenge (Runner-up)

EXTRA-CURRICULAR

Head Orientation Counselor

Carnegie Mellon University

Mar 2020 – Aug 2020
Doha, Qatar

- Planned and executed orientation program for cohort of students from 52 different countries.
- Organized and led training of over 190 community members that focused on diversity, equity, and inclusion.

Head of Finance

Carnegie Mellon University

Aug 2019 – May 2020
Doha, Qatar

- Managed \$100,000 budget for all activities, initiatives, and needs of the student body.
- Spoke at numerous public events and represented the student body in institutional meetings.

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