

M Bedir Tapkan

CONTACT INFORMATION	11929 W Airport Blvd, 77477 Stafford, TX, United States	<i>GitHub:</i> bedirT <i>E-mail:</i> bedir.tapkan.53@gmail.com <i>Portfolio:</i> www.bedirtapkan.com
RESEARCH INTERESTS	Multi-connected adaptive agents to solve various complex problems using Reinforcement Learning. Using Deep Reinforcement Learning to close the gap between human learning vs. machine learning.	
EDUCATION	North American University (NAU) , Houston, Texas USA <i>Software Engineering</i> B.S., Computer Science, 2015 - 2019	Overall-GPA: 3.84 - Major-GPA: 3.96
RESEARCH EXPERIENCE	Undergraduate Research Assistant <i>University of Houston</i>	January, 2017 - Ongoing <ul style="list-style-type: none">• Supervisor: Dr. Ricardo Vilalta• Creating a solution that can transfer the previous knowledge to solve new questions, optimization on explore/exploit dilemma for recurring queries.• Using meta-learning to help reinforcement learning models to achieve adaptivity through environment.• Using multi-layered deep reinforcement learning systems that are optimized using meta-learning.
TEACHING EXPERIENCE	Instructor - Algorithms for ICPC <i>North American University</i>	January 2018 - May 2018 <ul style="list-style-type: none">• Taught basic to advanced algorithms, data structures, competitive programming basics, basic logic, math and coding to 12 students from freshman to senior using C++/Python, Git/Github. Prepared class curriculum, lesson plan, and homework assignments.• Tools: C++, Python, Git, Github Teaching Assistant <i>Momentum Learning</i> June 2017 - July 2017 <ul style="list-style-type: none">• Co-taught basics of programming to 16 kids from years of age 10 to 18 using Java and Object Oriented programming.• Tools: Java, Eclipse
PROJECTS	Anomaly Detection on CO2 levels in ISS	April 2018 <ul style="list-style-type: none">• Created a tool to analyze CO2 level anomalies and clustering inside International Space Station. Presented Poster and the tool in Wearable Workshop at NASA.• Tools: Python, JavaScript, Pandas, Numpy, Scikit, Flask, HTML/CSS, Adobe Illustrator MLRPro - Machine Learning Resume Processor April 2017 <ul style="list-style-type: none">• Created a tool that evaluates the submitted resume, according to data that used to feed the machine learning algorithm behind the scene, and gives result that which level of companies given resume is qualified to apply. Worked with a team of 3.• Tools: Python, Flask, HTML/CSS, Adobe Illustrator• Repository: https://github.com/MichaelMMeskhil/MLRP

Open Source ACM-ICPC Preparation Curriculum**October-December 2015**

- Created a curriculum to help preparation process of the international competition ACM-ICPC, to self study algorithms and data-structures and to get the underlying concepts of algorithms.
- The curriculum is currently ranked in top 20 most popular open source courses on Github ([Article Link](#))
- **Tools:** C++, Java, C, Python, Git, Github
- **Repository:** <https://github.com/NAU-ACM/ACM-ICPC-Preparation>

Scholar Development Center**February 2016**

Led, organized, and implemented a project that helped students achieve increased awareness for academic success, encouraged career readiness, and improved career opportunities through mentor program.

**HONORS AND
AWARDS**

North American University: Exceptional Merit Scholarship, 2014-2019

North American University: President's Honor Roll , 2016-2018

**EXTRACURRICULAR
ACTIVITIES**

- ACM NAU Chapter *Chair, Vice Chair, Lab Leader, Senator* **2015-Present**
- Artificial Intelligence, ACM-ICPC, iOS Development, *Member in ACM Labs* **2015-Present**
- NAU Communications Club, NAU Future Leaders Club, *Graphic Designer* **2015-2018**
- HackNAU - 2017 — 60+ Attendees hosted, *Organizer & Director* **2017**
- HackHouston 2017 Best Project Overall and Best Machine Learning Project, *1st place* **2017**
- iHackathon — 30+ Attendees hosted, *Organizer & Director* **2016**
- NAU - Moonlight CTF 1, *Organizer & Co-Director* **2016**
- ACM-ICPC Regional Contest, *18th place* **2016**

TECHNICAL SKILLS

- **Expert:** Python, C++, Algorithms, UNIX, GitHub, Adobe Illustrator
- **Advanced:** C, R, Linux, Git, TensorFlow, Pandas, Numpy, Scikit-Learn, Java, LaTeX, Swift, Flask, Xcode, HTML/CSS, Adobe Photoshop, PHP, ASP.NET

REFERENCES**References available upon request**