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| **YIGIT**  **ALPARSLAN** | [**ALPARSLANYIGITCAN@GMAIL.COM**](mailto:ALPARSLANYIGITCAN@GMAIL.COM) | [**YA332.GITHUB.IO**](https://www.yigitalparslan.com) |
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| [**GITHUB.COM/YA332**](https://github.com/ya332) | **PHILADELPHIA, PA** |

**EDUCATION**

**B.S. in Electrical & Computer Engineering | MS in Computer Science | Drexel University**

* Concentrations: Artificial Intelligence and Computer & Network Security **Cumulative GPA: 3.97**
* Accelerated Combined Degree: BS/MS Program, Honors Degree, Dean’s list Expected Graduation: June 2021

**SKILLS - Programming Languages – Tools and Frameworks**

• Python • PowerShell • BASH • C • MATLAB • MySQL • HTML • XML • CSS • JavaScript

• React.js • Git • Jupyter Notebook • TensorFlow • PyTorch • NumPy • Keras • Pandas • Scikit-learn • NLTK • Tableau

**WORK EXPERIENCE**

**Founder | Software Developer – HELP UP September 2019—Present**

* Develop a non-emergency web chat platform for people who need help with mental depression
* Reach around 200 users, operate in US and Canada campuses and process 150 messages per day.
* Support account creation, encrypted messaging, chatroom features by using MERN Stack and Socket.io.

**Software Developer |** [**SAP Americas**](https://boomi.com) **- Newtown Square, PA Apr 2019—Present**

* Develop an early talent training dashboard to help mentors track their mentee’s progress used by 400 people
* Led a Speech-to-Text Conversational AI platform for the dashboard which increased daily interactions by 150%
* Predicted churn rate for SAP Max Attention customers with 86% by implementing a neural network.

**Outage Analysis Technologies Coop | PJM, Audubon, PA Apr 2018—Sept 2019**

* Automated system performance for in-house applications, and databases via Python, PL/ SQL, and Visual Basic
* Tested/maintained new application functionalities throughout the agile development lifecycle with unit testing
* Created design specifications and associated testing documents by using Confluence/JIRA for quality control

**Lem.ma, Inc | Start-up at Drexel University****- Philadelphia, PA May 2017— Sept 2017**

* Created 2D and 3D 100+ plots/graphics by using Python and JavaScript
* Collaborated with designers, and developers to implement the content for the customers

**RESEARCH & PUBLICATION**

**Perceptual Hashing as a Facial Image Filter | Drexel University April—June 2019**

* Used Gaussian Blurring as a defense against adversarial attacks, which reported 3.6% increase in accuracy

**Towards Evaluating Adversarial Attacks in Audio Domain | Drexel University January-April 2019**

* Crafted 27 CTC white-box, and PCA black-box attacks on DeepSpeech with 100% success
* Presented research at Stanford Undergraduate Research Conference, 2019

**Evaluating Deep Neural Networks’ Robustness | Drexel University Nov—Dec 2018**

* Performed 10,000+ non-targeted CW attacks to DNNs and reported an improvement of %44.3 on L2 defense
* Presented at Harvard National Collegiate Research Conference, 2018

**Improving Vanadium Batteries | Drexel Electrochemical Energy Laboratory Sep—Dec 2017**

* Simulated 2D/3D power flow in MATLAB, presented at Harvard National Collegiate Research Conference, 2017
* Scientific Publication, “Obstructed Flow Field Designs for Improved Power Density in Vanadium Redox Flow Batteries”,B. Akuzum, **Yigit C. Alparslan,** N. Robinson, E. Agar, E.C Kumbur, J. Applied Chemistry, 2019

**LEADERSHIP EXPERIENCE**

* Drexel Society of Artificial Intelligence - Founder & President – Promote AI research and mentor members
* Drexel STAR Research Scholar; Undergraduate Research Leader; DAAD-Rise Germany Scholar; Secretary, EWB
* DragonHacks (Drexel's very own 24-hour Hackathon) - Committee Member
* Resident Assistant; Teaching Assistant; Event Coordinator, French Club Peer-Mentorship Program - Awarded “Campus Awards” by the Embassy