YIGIT ALPARSLAN

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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

Co-Founder | Software Developer – HELP UP   September 2019—Present
- Develop a non-emergency web chat platform for people who need help with mental depression
- Support account creation, encrypted messaging, chatroom features by using MERN Stack and Socket.io.
- Currently run a KickStarter campaign to get funds and cover the web server and host costs

Software Developer | SAP Americas - 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 L_2 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