**** [LINKEDIN.COM/IN/YIGIT-ALPARSLAN](%20%20%20%20%20%20%20%20%20LINKEDIN.COM/IN/YIGIT-ALPARSLAN) <HTTPS://YA332.GITHUB.IO> ALPARSLANYIGITCAN@GMAIL.COM GITHUB.COM/YA332 2676908405

**YIGIT ALPARSLAN**

**EDUCATION**

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

* Master’s Thesis on Artificial Intelligence and Machine Learning **Cumulative GPA: 3.97**
* Drexel Global Scholar, Drexel AI Founder, Honors Degree, Dean’s List Expected Graduation: June 2021

**SKILLS**

• Python • Java/Spring Boot • C • Hadoop • Git • Docker • HTML • CSS • JavaScript/TypeScript • NodeJS • React • Vue.js

• MongoDB • MySQL • RESTful API • GraphQL • Travis CI/CD • AWS/AliCloud/GCP • Django • Firebase •Tableau • Redis

• SAP UI5 • SAP Analytics Cloud/ Cloud Platform • SAP Web IDE • SAP Conversational AI • SAP BusinessObjects • SAP HANA XS

**WORK EXPERIENCE**

**STAR Program Intern|** [**SAP North America, Inc**](https://boomi.com)**.** **- Newtown Square, PA**

**Software Engineer Intern|** [**SAP Predictive Maintenance Team**](https://boomi.com)  **June 2020 - Present**

* Develop RESTful API for a failure curve analytics app to predict time to failure and failure mode for equipments

**DevOps Engineer Intern |** [**SAP Multi Cloud**](https://boomi.com) **June 2020 - Sept 2020**

* Delivered 8 routing table displays for an internal monitoring platform (50+ people) on SAP’s AliCloud architecture

**UI/UX Developer Intern | SAP Talent Acquisition and Branding Mar 2020 - June 2020**

* Develop and maintain jobs.sap.com (10 million+ visits / year) using HTML5, CSS3 and JavaScript

**Full-Stack Developer Intern | SAP Center of Expertise Apr 2019 - Mar 2020**

* Improved interaction counts by 3x for an internal training app (400+ people) by implementing a conversational AI
* Created a neural network in SAP Cloud Platform to predict SAP cloud customers’ churn rate with 86% accuracy

**Outage Analysis Technologies Coop | PJM, Audubon, PA Mar 2019 - Sept 2019**

* Reduced performance testing duration for in-house applications by 50% via Python and PL/ SQL scripts
* Unit-tested/maintained new application functionalities throughout the agile development lifecycle
* Facilitated SCRUM events by using Confluence/JIRA for quality control and developed design requirements

**Software Engineer Intern | Lem.ma, Inc, Philadelphia, PA May 2017- Sept 2017**

* Created 2D plots and graphics for an online education start-up by using Python and JavaScript

**PROJECTS**

[**DRIVE UP!**](https://play.google.com/store/apps/details?id=driveup.facedetector) **| Android App @ Play Store (Java) June 2020 - July 2020**

* Developed, maintained, and published an android app written in Java to Play Store
* Implemented a machine learning model that can detect driver drowsiness under 80ms with 98% accuracy

[**Training Dashboard**](https://interndashboard-d774d7966.dispatcher.us2.hana.ondemand.com/) **| Workforce Optimization App**  **Apr 2019 - Apr 2020**

* Developed RESTFUL APIs with Postman & SAP XSJS and designed database with SAP HANA & MySQL
* Implemented secure integration with SAP Cloud Platform (Neo) using enterprise integration patterns
* Designed frontend architecture for scalable enterprise using SAP UI5, JavaScript, HTML5, jQuery

[**React Feedback Popup**](https://www.npmjs.com/package/react-feedback-popup) **| Open Sourced NPM Package (100+ downloads/month) Mar 2020 - Apr 2020**

* Developed a production-level React.js component and published to NodeJS Package Manager Platform
* Employed CI/CD via Travis to maintain deployments, handled git pull requests and tested with Jest framework

[**Free Food Book**](https://freefoodbook.netlify.com/) **|** **Social Media App Jan 2020 - Apr 2020**

* Developed a social media app that lets users find food deals with MongoDB, Node, React, Express and Travis

[**Linkify**](https://linkify.herokuapp.com)**|** **Personal Brand Management App**  **Jan 2020 - Mar 2020**

* Developed a full stack app with MongoDB, Express, React, & NodeJS deployed on Heroku Cloud Platform

[**Churn Rate Predictor**](https://tfpg-sap.herokuapp.com) **| Docker Web Application Dec 2019 – Mar 2020**

* Created a full stack app with Django, React, MySQL and Docker deployed on Heroku to predict SAP Max Attention customer churn rate with 86% accuracy based on historical data

[**HELP UP!**](https://helpup-production.firebaseapp.com) **|** **Mental Health Support Platform Sept 2019 - Jan 2020**

* Developed a non-emergency anonymous chat platform for people who need help with mental depression
* Created account registration, login, chatrooms, messaging with Firebase, Express, Node.js React and Socket.io

**PageRank Implementation with MapReduce and Hadoop June 2019 - July 2019**

* Used MapReduce on Hadoop Distributed File System to implement page rank algorithm

**LEADERSHIP EXPERIENCE**

* Drexel Society of AI - Founder & President - Promote AI research, mentor members, facilitate workshops
* Drexel SimpleX – Founder, Editor-In-Chief, Student-run Research Publication Magazine at Drexel University
* DragonHacks (Drexel's very own 24-hour Hackathon) - Committee Member – Organize the hackathon activities
* Resident Assistant 2018 – Facilitate freshman class residency trainings
* Teaching Assistant 2018 - present – Teach Parallel Computing, Deep Learning and AI classes for graduate students
* Drexel STAR Research Scholar; Undergraduate Research Leader; DAAD-Rise Germany Scholar; Drexel A.J Scholar

**PUBLICATIONS**

* Alparslan, Ken, Yigit Alparslan, and Matthew Burlick. "Towards Evaluating Driver Fatigue with Robust Deep Learning Models." arXiv preprint, <https://arxiv.org/abs/2007.08453>
* Alparslan, Ken, Yigit Alparslan, and Matthew Burlick. "Adversarial Attacks against Neural Networks in Audio Domain: Exploiting Principal Components." arXiv preprint, <https://arxiv.org/abs/2007.07001>
* Alparslan, Yigit, Mannika Kshettry, and Louis Kratz. "Towards Evaluating Gaussian Blurring in Perceptual Hashing as a Facial Image Filter." arXiv preprint, <https://arxiv.org/abs/2002.00140>
* Alparslan, Yigit, et al. "Adversarial Attacks on Convolutional Neural Networks in Facial Recognition Domain." arXiv preprint, <https://arxiv.org/abs/2001.11137>
* Alparslan, Yigit, et al. "Perfecting the Crime Machine." arXiv preprint, <https://arxiv.org/abs/2001.09764>
* Schwartz, Daniel, Yigit Alparslan, and Edward Kim. "Regularization and Sparsity for Adversarial Robustness and Stable Attribution.", <https://link.springer.com/chapter/10.1007/978-3-030-64556-4_1>
* Alparslan, Yigit, et al. "Towards Searching Efficient and Accurate Neural Network Architectures in Binary Classification Problems." arXiv preprint, <https://arxiv.org/abs/2101.06511>
* Alparslan, Yigit, Ethan Jacob Moyer, and Edward Kim. "Evaluating Online and Offline Accuracy Traversal Algorithms for k-Complete Neural Network Architectures." arXiv preprint, <https://arxiv.org/abs/2101.06518>
* Alparslan, Yigit and E. Kim. “Robust SleepNets.” arXiv preprint, <https://arxiv.org/abs/2102.12555>