Dhruv Aggarwal

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OBJECTIVE: To gain industry experience through a full-time position in the field of data analytics and software development

EDUCATION:

- Purdue University, West Lafayette, IN — May 2020
- Bachelor of Science in Computer Engineering

TECHNICAL SKILLS:

- Software: Python, R, MATLAB, C, C#, C++, Java, SQL, HTML, XML, CSS, JavaScript, GitHub, MS Office
- Hardware: Linear Circuit Analysis, Verilog, OrCAD, CPLD
- Operation Systems: Linux, MacOS, Windows
- Certifications: Microsoft SQL Server (Udemy), Python Programming (Udemy)

PROFESSIONAL EXPERIENCE:

AT&T — Jun 2019 – Aug 2019

Software Engineering and Data Analytics Intern

- Replaced manual effort by automating ETL from SharePoint to SQL via Python scripts saving 36 minutes daily and $12,000 annually
- Created an application and enhanced User Interface by replacing user effort to lookup data with AJAX call to database to reduce effort by 120 seconds for 800 people in the organization
- Performed Data Visualization by creating relational data models, and interactive reports online using PowerPivot, Power View and SharePoint, replacing email reports with automated daily reports

Flyr — Aug 2018- Aug 2019

Co-Founder

- Established the startup to create an intelligent recommendation engine which utilizes a proprietary machine learning algorithm to connect students with organizations
- My long-term vision as a co-founder is to create a platform in which we can successfully recommend organizations and events for students with greater than a 90 percent accuracy
- Created a landing page and coded the proprietary algorithm along with overseeing Project Management, Team Management and Business Development

Valiance Partners — Jun 2018 – Aug 2018

Software Engineering Intern

- Generated XML to C# code generator to serialize/de-serialize the XML file
- Developed user-friendly data grid to display the errors, including the usage of third-party DLL's
- Created an export to Excel functionality that would help businesses understand and process the errors found
- Wrote and debugged complex SQL queries for Exporting/Importing data and to implement ETL (Extract, Transform, Load) across multiple databases/ data sources
- Documented procedures and processes for error validation in Microsoft Word and Microsoft PowerPoint

Machine Learning and Pattern Recognition, Rome (Study Abroad) — May 2018 – Jun 2018

- Studied neural networks, support vector machines, decision trees and data mining methods
- Worked on intelligent information processing along with search and retrieval mechanisms
- Wrote and edited algorithms for classification, recognition, prediction, and optimization

PROJECTS:

Unmanned Aerial Vehicle (UAV): Precision Algorithm for Takeoff and Landing — Jan 2018 – May 2018

- Developed, simulated and tested an autopilot algorithm on MATLAB to assess real time compatibility of an UAV
- Identified waypoints and targets for testing the algorithm in complex scenarios

Data Analytics & Data Cleansing: Linear plotting of complex Thermocouple Data — Mar 2017 – May 2017

- Developed a data cleansing algorithm on MATLAB to cleanse two sets of Thermocouple data of 10,000 data points each in MS Excel
- Analyzed linear plots of each thermocouple to compare critical metrics and identify the most efficient thermocouple

SUPPORTING LEADERSHIP EXPERIENCE/ SKILLS:

Campus Resident Tour Guide, IN — Jan 2018 - Present

- Provide tours to university residences guests and prospective students

Delta Mu Kappa, IN — Aug 2018- Present