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 and API calls saving 36 minutes daily and $12,000 annually
- Created an application and an enhanced GUI to autofill fields with AJAX call to database for 800 people in the organization
- Performed Data Visualization by creating relational data models, and interactive executive-level reports online using PowerPivot, Power View and SharePoint

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