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   Dallas, TX
- Automated ETL from SharePoint to SQL via Python scripts and API calls saving 36 minutes daily and $12,000 annually
- Developed an application and an enhanced GUI to autofill fields with AJAX call for use of 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   West Lafayette, IN
- Established the startup to create an intelligent recommendation engine which utilizes a machine learning algorithm to connect students with organizations
- My long-term vision as a co-founder was 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 oversaw Project Management, Team Management and Business Development

Valiance Partners   Jun 2018 – Aug 2018
Software Engineering Intern   Basking Ridge, NJ
- 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 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:

Lead Software Engineer on Senior Design: Aug 2019 – Present
- Built a project to receive voice input through a raspberry pi and output on a robotic hand the translate ASL characters
- Implemented open source API, used PWM servos to move the fingers as well as TCP network connection to send data from raspberry pi to STM32 micro-controller via ESP8266 wifi module.

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

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
- Social Chair, Pledge Coordinator, Formal Chair, and Standards board chair of Purdue's Entrepreneurship fraternity