

# Sagar Garg

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## EDUCATION

**NORTHWESTERN UNIVERSITY** | M.S. | Evanston, IL Mar 2022  
Major: Data Science | Specialization: Artificial Intelligence / Natural Language Processing GPA: 4.00

**PURDUE UNIVERSITY** | B.S. with Distinction | West Lafayette, IN May 2020  
Major: Computer Engineering | Minor: Computer and Information Technology GPA: 3.88

## SKILLS

Data: ETL Automation • SQL • Machine Learning • NLP/AI • Pandas/Numpy/Matplotlib • Data Mining

Programming: Python • R • C • Java • C++ • Android Development

Engineering: Micro-Controllers • PCB Design • 3D Printing and Design • AutoCAD/Inventor

Software: Tableau • Power BI • Teradata • TOAD • MATLAB • Microsoft Access • JIRA • Mattermost • GIT

Web Development: HTML • CSS • JavaScript • PHP • XML • Adobe Illustrator/Photoshop

## PROFESSIONAL EXPERIENCE

**THE BOEING COMPANY** | Lead Data Analyst | Seattle, WA Mar 2022 – Present

- Lead the Data Analytics team providing cross-functional support for BGS CMESP business development
- Created an automation tool enabling real-time generation of tailored customer offers for Sales & Marketing
- Own and maintain data lab and ETL pipeline for data infrastructure used for dashboards and applications
- Developed revenue forecast for LRBP and business cases by creating a predictive evaluation model

**THE BOEING COMPANY** | Data Scientist | Seattle, WA May 2020 – Apr 2022

- Streamlined data retrieval and analysis through Python-based Scripts across BGS Sub-Components
- Identified, analyzed, and provided recommendations for prospective projects to improve business strategy
- Perform necessary data preparation and enhancements to algorithms and Tableau Dashboards

**THE BOEING COMPANY** | Product Management Engineering Intern | Renton, WA May 2019 – Aug 2019

- Developed Python-based ETL Scripts for cross-platform data transfer
- Improved infrastructure & business process supporting \$100M+ in capital investments across BCA and BDS

**SPIRIT AEROSYSTEMS** | IT Operations Intern | Wichita, KS May 2018 – Aug 2018

- Created Tableau Dashboards to view a schedule of operations to highlight ready-to-work orders
- Provided better visibility for shop floor managers and directors to prevent late orders and improve efficiency

**OFFICE OF ENROLLMENT MANAGEMENT** | Web Developer | West Lafayette, IN May 2017 – Sept 2018

- Redesigned and developed pages using a CMS along with HTML, CSS, JS, PHP, and Photoshop
- Over 100,000 people daily access the Purdue Admissions website

## LEADERSHIP PROGRAMS

**BGS LEADERSHIP LAUNCH 1 PROGRAM** June 2022 – June 2023

- Boeing Global Services development program that focuses on Leadership, Critical Thinking, Business Acumen, and Communication
- Leveraged training, exposure opportunities, and mentorship to accelerate professional growth
- Designed to invest in continued development and tracking towards obtaining a manager role within BGS

## PROJECTS & ACCOMPLISHMENTS

### **TRACKING BOEING TWITTER SENTIMENT USING NLP AND DEEP LEARNING** | Thesis/Capstone

- Published paper that analyzed text sentiment from Twitter data about the Boeing Company using NLP
- Analyzed how public opinion towards Boeing has shifted over the last 10 years
- Trained and validated a Recurrent Neural Network (RNN) and assigned a sentiment score for each tweet
- <https://sagargarg.io/capstone.pdf>

### **PURDUE SOCIETY OF PROFESSIONAL ENGINEERS** | President Jan 2018 – Dec 2019

- Provided key leadership and vision by leading bi-weekly officer meetings while communicating with faculty, sponsors, members, and students
- Won the 2019 Student Organization of the Year Award through initiatives such as Research Roundtable

### **EPICS DISC** | Project Manager | West Lafayette, IN Jan 2019 – May 2019

- Responsible for a team consisting of 25 members in 3 sub-teams dedicated to help the community
- Developed SQL/PHP code for a database of historical buildings in the area

### **QUISTRO** | Android App | Seattle, WA Oct 2018 - Feb 2019

- Launched Android App to help users decide where to eat based on current location and user preferences
- Incorporated the Yelp API and a simple algorithm to filter the number of restaurant choices down to three

### **MAZE RUNNER** | Microprocessor Systems and Interfacing | Seattle, WA Oct 2018 - Dec 2018

- Implemented a STM32F0 microcontroller and a 32x32 LED Matrix to create a maze game controlled by a PCB keypad
- Won the People's Choice award at the Fall 2018 Spark Challenge

### **EPICS WISE** | SLAC Design Lead | West Lafayette, IN Jan 2017 – May 2017

- Directed a sub-team to develop a web app to help audiology students practice administering hearing tests to patients
- Delivered project to our Project Partner who uses the application to help dozens of students every semester