

Dhruv Bajaj

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Professional Experience

Software Engineering Intern, Arista Networks

Aug 2022 – Dec 2022 | Bangalore, Karnataka

- Proficient in layer 2 and layer 3 networking protocols, with hands-on experience in designing, testing, and optimizing networks.
- Demonstrated expertise with Arista's Cloud Vision Platform, including in-depth testing of advanced features

Full Stack Developer Intern, HighRadius

Jan 2022 – Apr 2022 | Remote

- Developed and deployed a FintechB2B cloud application with React.js for front-end, Java for back-end, Postgres for database and machine learning components and its integration with python.
- Application enables account users to view, process and predict invoice payments.

Python Development Intern, Docplus Online

Jul 2021 – Jan 2022 | Remote

- Leveraged Python's Selenium and BeautifulSoup libraries to scrape healthcare websites for information on doctors, hospitals, and medicines.
- Developed and automated Python scripts for real-time data fetching, database handling with Excel, and translation of website content into 65 languages

Data Mining Intern, Make Me Builder

Apr 2021 – Jul 2021 | Virtual

- Built algorithms for data cleaning and data profiling using Pandas and Python.
- Performed EDA (Exploratory Data Analysis) on datasets.

Positions of Responsibility

GirlScript Summer of Code- Mentor and Contributor (March 2022-May 2022)

GirlScript Winter Of Contributing- Mentor for 'Data Science with Python' (Sep 2021-Dec 2021)

Technical Head and Joint PRO- Ramanujan Mathematics Club SRM (Aug 2021-Dec 2022)

Technical Associate- NWC Association SRM (Aug 2021-May 2022)

Skills

Python, C/C++, Java, JavaScript, SQL, R Language, Golang, React JS, Node JS, Data Structures, OOPS, Networking, Layer 2 Protocols, Layer 3 Protocols, API Development, Backend Development, RESTAPI, DBMS, Data Science, Network Testing, Selenium, IoT Devices, Embedded C, Operating System, Data Analysis, Machine Learning, Deep Learning, Artificial Intelligence, Tensorflow, Pytorch, Keras, Tableau, Big data Visualization, AWS, Git and Github

Education

B.Tech (CSE), SRM Institute of Science and Technology 9.51 CGPA
Jul 2019 – May 2023 | Kattankulathur, Chennai

Class XII (PCM), CBSE 89%
2019 | Kanpur, India

Class X, CBSE 10 CGPA
2017

Projects

Data Visualization and Machine Learning for Efficient Irrigation in Aquaponics,

Major Research Project

A soil irrigation system using aquaponics incorporates real-time sensors to monitor key parameters. Data is processed through machine learning algorithms and presented visually for decision-making and system optimization.

AI-Enabled FinTech B2B Invoice Management Application

Built a Full-stack Invoice Management Application using ReactJS, JDBC Servlets, Java, Python, Postgres DB and added components of Machine Learning Models for payment prediction.

Pneumonia Detector using Artificial Intelligence

A computer-aided diagnosis system for automatic pneumonia detection using deep transfer learning and chest X-ray images, with 90% Accuracy. Speech API and PyQt for enhanced user experience.

CycloFit

A web-based application which allows users to rent bicycles and awards them for as per the distance they cover. Built with HTML, CSS, JavaScript, Bootstrap, Flask, SQLite and SQLAlchemy.

Hola- Personal Virtual Assistant

Developed a personal voice assistant using Python that lets the user make a Google search, watch Youtube, send Whatsapp messages, compose emails and much more by just a voice command.

Social Media API

A backend API developed for a social media app with Python, FastAPI library and integrated the database using PostgreSQL.

Achievements

Qualified GATE-CSE(2023) with a 5000 AIR rank.

Received Performance Based Scholarship of 55,000/- rupees based on the cumulative CGPA in the academic year 2021-22 from SRM

Selected for the 'Virtual Exchange Program Spring Semester 2022' at Asia University. (Feb 2022)

Top mentor for 'Data Science With Python' domain for GirlScript Winter of Contributing 2021.(Nov 2021)

Selected for scholarship for the 'AI Foundation Course' at WhiteHat Jr by NASSCOM. (Nov 2021)

Secured first position in Techknow-2019, organized by the Department of Physics and Nanotechnology, SRMIST (2019)

Courses

AWS Academy Machine Learning Fundamentals,
Amazon Web Services

Neural Networks and Deep Learning,
Deeplearning.AI

Python for Data Science, Cognitive Class(IBM)