**ARNAV BHATTACHARYA**

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**Personal Profile**

Motivated and skilled computer science professional with a strong academic background and 2 years of experience in software development, data analysis, and machine learning engineering. Experienced in developing high-quality APIs, implementing automated processes, and analyzing complex data sets to drive business solutions. Seeking to leverage my diverse skill set and passion for technology to excel as a front-end developer or contribute as a machine learning engineer or software developer in a reputable tech firm. Diligent, collaborative, and passionate about using technology to create engaging and user-friendly digital experiences.

**Education**

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September 2022 – September 2023: **MSc in Computer Science (Intelligent Systems)**, Grade: 2.1, Trinity College Dublin

Relevant Modules: Artificial Intelligence, Machine Learning, Advanced Software Engineering, Text Analysis, Information Retrieval and Web Search, Data Analysis, Internet of Things

Projects:

* **Dublin Restaurant Review Analysis** - Developed a machine learning algorithm to predict the rating of Dublin-based restaurants on TripAdvisor based on textual reviews, aiming to identify words that strongly influence the rating. Created a model that predicts the rating for any text-based review on Dublin restaurants and identifies significant words.
* **Dublin Disaster Management System** – “Disastro” is a remarkable system that provides smart, fast, and efficient interventions to city disasters. It supports authorities by including citizens' reports for faster detection of threats. This system has been meticulously designed to revolutionize disaster management and response.
* **Smart Pillow** - Worked with a team of 4 members to develop a smart pillow. We utilized cutting-edge hardware components, including an ESP32 and ESP32-S2-Kaluga, a pressure sensor, a microphone, a tilt sensor, a temperature and humidity sensor, a vibration motor, and a speaker. We have also used technologies such as Expo React Native and the Victory Native package for data visualization.
* **Adaptive Dating Application** – “Wingman” is a mobile dating application that uses an adaptive algorithm to match users with potential partners based on their characteristics. The app learns about the user's preferences and inputs to provide recommendations for compatible matches and includes an icebreaker question or joke to help users start a conversation with their matches. The goal of Wingman is to increase the likelihood of finding a suitable partner and improve the overall happiness of its users.

June 2016 – June 2020: **BTech in Computer Science and Engineering with Specialization in Information Security**, Grade: 1.1 Vellore Institute of Technology, India

Relevant Modules: Image Processing, Operating Systems, Software Engineering, Java Programming, Cyber Security, Internet and Web Programming

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**Professional Experience**

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January 2020 – August 2022: **Software Analyst**, Schneider Electric, India

* Spearheaded development of 20+ high-quality APIs using APIGEE, Postman, GIT, Swagger, SQL & XML to support business requirements & integration of various domains.
* Implemented an automated Static Code Analysis process to ensure software quality & reliability issues across business systems.
* Optimized deployment cycles through CI/CD processes for increased customer satisfaction and efficiency.
* Analyzed complex data sets to identify issues & devise solutions efficiently while improving customer engagement by 15%.
* Forged Schneider Electric website utilizing Drupal within an agile team environment resulting in a reduction of 70% turnaround time.

May 2018 – June 2018: **Web Developer (Intern)**, Indian Oil Corporation, India

• Developed a Gate Pass Management System using Java for the Information System Department in the Mumbai office, enabling efficient tracking and maintenance of hardware.

**Volunteer Experience**

2015–2016: **SEARGENT-AT-ARMS**, Rotaract Club of Thane Skyline, India

• Maintained discipline and arranged logistics during events.

2017–2017: **Member**, Rotary Club of Vellore Midtown, India

• Participated in cancer awareness, blood donation, and tree plantation initiatives.

**Personal Projects**

**E-Commerce Web Application:** The e-commerce web application developed in MERN stack, comprising React for frontend, styled-components for UI and Express for backend, and MongoDB for database management. One of the key features of the application is the payment gateway which was integrated with Stripe, a popular payment processing platform.

**Video Streaming Website:** The video streaming web application was developed using React for the front end, styled-components for UI, MongoDB for database management, Firebase for video storage, and Express for authentication. One of the key features of the application is the recommendation system, which is based on the tags of each video. This system helps users to discover new content that is tailored to their interests.

**Cook Book:** This application is a recipe storage platform that has been developed using EJS for templating, MongoDB for database management, Express for server-side scripting, and Bootstrap for styling web pages. This application allows users to save recipes that have been made by them, along with the details of ingredients, preparation methods, cooking time, and nutritional information.

**Technical Skills and Certifications**

Technical Skills:

* Data Science and Machine Learning
* Python programming
* Data analysis and visualization
* Front-end web development (HTML, CSS, JavaScript, React)
* Version control
* User experience design and digital marketing

Certifications:

* IBM Data Science Specialization (IBM)
* Foundations of User Experience (UX) Design (Google)
* The Fundamentals of Digital Marketing (Google Digital Garage)
* Meta Front-End Developer Professional Certificate (currently pursuing)

**Hobbies:**

* Cooking
* eSports
* Reading
* Badminton
* Travelling
* Trekking