

YUVANSHANKAR AZHAGUMURUGAN

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PROFESSIONAL SUMMARY

Articulated Data Science Student intern, with expertise in Data and Analytics, Data Engineering and Cloud Technologies. Proficient in Data Analysis using Power BI, Tableau, Python and Microsoft SQL Server with strong background in Machine Learning, Data Management and Data Visualisation. Currently completing a Master of Information Technology (Software Engineering). Presently seeking opportunities in Data Analysis, but open for any ICT technologies.

TECHNICAL SKILLS

- **Documentation:** Microsoft Word, Confluence
- **Low Code Application:** Oracle APEX, Bootstrap Studio, PowerApps
- **Data Analytics and Visualisation:** Power BI, Tableau, Python, Excel, R
- **Data Engineering:** Python, Azure Data Studio, SSMS, SSIS, PL/SQL, PySpark
- **Artificial Intelligence:** LLMs, Generative AI, Machine Learning, Deep Learning systems
- **Python Frameworks & Libraries:** Flask, Django, OpenCV, Pandas, Scikit-learn, FastAPI, PySpark
- **Software Engineering:** MVC, GraphQL, ITIL
- **Testing & QA:** JMeter, Pytest, Selenium
- **User Interface Design:** Figma, Adobe XD, Canva, Bootstrap Studio, PowerApps
- **Cybersecurity:** Nmap, Metasploit, Kali Linux, BurpSuite, Nessus
- **Multimedia:** Video Editing, Photoshop
- **Internet of Things:** Embedded C, MicroPython, Microcontrollers
- **Full-stack Development:** HTML, CSS, Flask, Django, FastAPI, C#, ASP.NET, Docker, Javascript
- **Programming Languages:** Python, C/C++, Java, C#
- **Version Control:** Git, GitHub
- **Administration Tools:** JIRA, Microsoft Project, MS Office (Word, Excel)
- **Integrated Development Environments (IDEs):** Eclipse, Visual Studio Code, Insiders, Anaconda Prompt, Jupyter Lab
- **Databases:** MySQL, Oracle SQL, PostgreSQL, Microsoft SQL
- **Web Scraping:** BeautifulSoup, Selenium
- **Cloud Platforms:** Microsoft Azure, Google Cloud Platform

WORK HISTORY

Data Science Student Intern Charles Darwin University

October 2024 – (Ongoing)
Darwin, Australia

- Primarily assisted the Director of Planning and Performance Team, with various data request queries, from the university, in **agile methodology approach**, primarily using Jira.
- Performed **Business Analysis** tasks to identify the business needs and work with stakeholders to design and implement solutions using Microsoft SQL Server and SSMS
- Worked on **creating documentation** using Confluence, to document various procedures in the team, related to Data Analysis, Reporting and Business Analysis
- Utilised Microsoft Excel, Microsoft Power BI and Tableau to create **Data reports and Visualisations**.
- Worked on **conducting surveys using Qualtrics** for student perception analysis.
- Followed a **Data Governance Release Procedure** to help with Data request queries.
- Worked on **Power Automate** to acquire Form queries and send automated emails.

Consultant, Data and Analytics Aurecon

September 2023 – September 2024
Darwin, Australia

- Worked as Consultant at Data and Analytics division predominantly working on **Data Engineering Activities** with tools like Python, Dockers, Azure, Jupyter Notebooks in **agile methodology**, predominantly using Gitlab's Kanban feature
- Utilised technologies such as **Containerization (Dockers), Git, Data Science Language and Notebooks**
- Utilised methodologies like **Data cleansing and Data Transformation** for Data Engineering purposes
- Experience in **Database Administration**, with Data Modelling using Microsoft SQL Server, Azure Data Studio and relevant Database skills.
- Familiarity in **Data Presentation Techniques** using Power BI

Data Officer
Northern Territory Government

June 2023 – July 2023
Darwin, Australia

- Worked as Data officer with Office of Digital Government, within Department of Corporate and Digital Development, under Student Vacation Program
- Created information request form for capturing enquiries and intelligence gathered by the team
- Developed data template for standardising corporate telecommunications data
- Drafted first version of Telecommunication Data Governance Framework and undertook simple data quality activities

Senior Analyst
Ernst & Young LLP

July 2022 – Jan 2023
Chennai, India

- Worked in various technologies related to Data Science, Machine Learning, majorly with Python.
- Developed capstone Machine Learning web application projects using FastAPIs
- Worked on Docker technologies
- Utilised Database systems like MySQL and Microsoft SQL for data storage.
- Worked on Microsoft Azure Platform cloud platform with official certifications
- Developed capstone projects with PySpark
- Experienced with Microsoft's Power BI

Summer Intern
Ernst & Young LLP

Feb 2022 – July 2022
Chennai, India

- Worked as a Summer Intern at Data Analysis in Technology consulting. Acquired certifications and training required for Senior Data Analyst role at EY

EDUCATION / CERTIFICATIONS

- **Master of Information Technology (Software Engineering)** **Feb 2023 - November 2024**
Charles Darwin University, Casuarina NT 0810, Northern Territory, Australia
- **Bachelor's degree: Computer Science and Engineering** **June 2018 - June 2022**
B. S. Abdur Rahman Crescent Institute Of Science And Technology, Tamil Nadu 600048, India
- [Microsoft Certified: Power BI Data Analyst Associate](#)
- Microsoft Business Analyst
 - Requirements Gathering in Business Analysis
 - Data for Business Analysts Using Microsoft Excel
 - Business Analysis Fundamentals
 - Data and Business Process Modeling with Microsoft Visio
 - Project Delivery in Business Analysis and Capstone Project
 - Power Platform in Business Analysis
- [Google Data Analytics Professional](#)
 - Foundations: Data, Data, Everywhere
 - Ask Questions to Make Data-Driven Decisions
 - Prepare Data for Exploration
 - Process Data from Dirty to Clean
 - Analyze Data to Answer Questions
 - Share Data to Answer Questions
 - Share Data Through Art of Visualization
 - Data Analysis with R Programming
 - Google Data Analytics Capstone: Complete a Case Study
- AZURE CERTIFICATIONS:
 - [Microsoft Certified: Azure Fundamentals](#)
 - [Microsoft Certified: Azure AI Fundamentals](#)
 - [Microsoft Certified: Azure Data Fundamentals](#)
 - [Microsoft Certified: Azure AI Engineer Associate](#)
 - [Microsoft Certified: Azure Database Administrator Associate](#)
- [Foundation C# with Microsoft](#) (Microsoft and Freecodecamp)

- Microsoft SQL Server 2022 Essential Training (LinkedIn)
- SQL Server Integration Services (LinkedIn)
- SQL for Data Analysis (LinkedIn)
- The Python Certification Course (Udemy)
- Advanced Python: Working with Data (LinkedIn)
- C++ Essential Training (LinkedIn)
- Cyber-security and the Internet of Things (Coursera)
- Intro to Service Management with ITIL® 4 (LinkedIn)
- Video Editing with Adobe Premiere Pro (Udemy)
- PHP and MySQL (IIT Bombay)
- Java (IIT Bombay)
- Blockchain Basics (Coursera)
- Data Science Foundations: Fundamentals (LinkedIn)
- Generative AI: Working with Large Language Models (LinkedIn)

PATENTS

1. ***A System And Method For Remote Controlling A Plurality Of Appliances:*** Created an smart home system to help people with disabilities like Paraplegia (**Application number:** 202241045334; **Date of filing:** 09/08/2022).

(Kindly visit this website to refer to the patents mentioned above: <https://ipindiaservices.gov.in/publicsearch>, as these patents are filed in India)

PROJECTS

1. ***ParaIoT: A smart-IoT system for Paraplegic individuals:*** Proposed a new design for a smart home focused on people with paraplegia.
2. ***IoT-based River Water Monitoring System (Ongoing):*** Creating an IoT system that monitors river water on a lively basis for research purposes
3. ***Student Appointment System using PowerApps:*** Created a Customised Student Appointment System for Administrators in Charles Darwin Universities using Microsoft PowerApps.
4. ***Customer Perception towards Gaming and Gaming Industry in Chennai:*** This market research project aims to determine the consumers' perceptions and opinions towards games and their respective industries.
5. ***Timetable Generator using Python:*** Created a mini-Python project to allocate courses for various departments in an institution.
6. ***Rent Price Predictor:*** Created a webpage using FastAPI with Machine Learning Models to predict prices using an Airbnb dataset.
7. ***Online Web application to store details of patients visiting a dental clinic using Python Flask and MySQL:*** Designed a mini website for a Dental clinic to store details of patients visiting a Dental clinic using Python Flask and MySQL as a Database. Created as a Capstone Project.
8. ***Addressing Pollution Challenges in Northern Territory:*** Analysed waste discharge and pollution management documents in the Northern Territory to raise awareness on critical environmental issues. Utilised open-source based LLM systems.

AWARDS

- **Academic Excellence Award at IT Code Fair 2024** for excellence in course 'Security Assessment in Software Development
- **Business Innovation Challenge - Honourable Mention at IT Code Fair 2024**
- **Data Science Challenge - Honourable Mention at IT Code Fair 2024**
- **Research Challenge - Honourable Mention at IT Code Fair 2024**
- **Business Innovation Challenge Runner Up at IT Code Fair 2023**
- **Honourable mention - Govhack 2023** for our proposal on "ScienceNT -> Supporting remote communities with Scientific Newsletters"

VOLUNTEERING EXPERIENCE

- One of the founding members of "Crescent Technocrats Club" and conducted a Project Hackathon on the topic "Emerging technologies that can change the world."
- Performed as Student Placement coordinator of B.S. Abdur Rahman Crescent Institute of Science and Technology
- Performed as Secretary of the Crescent Data science Club of B.S. Abdur Rahman Crescent Institute of Science and Technology
- One of the main coordinators of the National Level Symposium "Arcane", conducted by the Computer Science Department B. S. Abdur Rahman Crescent Institute of Science and Technology
- Performed as a Secretary of CDU IoT Club

LANGUAGES: English (Bilingual Proficiency), Tamil (Native Proficiency), French (Elementary Proficiency)

LICENSES: NT Driving License, OCHRE Working with Children Check

REFERENCES

Penny Szybiak

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