

Anthony Thomas

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U.S. Citizen | Authorized to work anywhere in the U.S. without sponsorship

Portfolio Website: <https://portfolio-site-2-snowy.vercel.app/>

WORK EXPERIENCE

WesternLaw Group LLC

Colorado (Remote)

AI Automation Engineer

January 2025 - Present

- **Engineered a scalable letter automation solution** using PostgreSQL, FastAPI and Retool for automated letter drafting with HOA data, cutting prep time from 15 to 3 minutes per letter.
- **Established a letter authorization workflow** with Outlook using Power Automate, eliminating redundant email steps and reducing process time by 50%.
- **Implemented AI-driven anomaly detection** in billing with dynamic automation of time capture, doing away with manual timer entry and increasing accuracy.

Covestro AG

Houston, Texas

Cloud Developer

October 2023 - December 2024

- **Developed and implemented a Safety Inspection App** which is currently the standard for site-wide safety inspections at Covestro's Baytown plant, improving documentation accuracy by 30% and enhancing accountability for safety protocols.
- **Maintained and optimized ETL pipelines** using EC2, Glue (PySpark), S3 and Redshift to process IoT sensor data from industrial equipment and deliver real analytics and dashboards in QuickSight.
- **Deployed 5+ Canvas and Model-Driven applications** for repairs, inspections and various chemical plant operations, reducing manual errors by 15% and streamlining process approvals.
- **Crafted interactive Power BI dashboards** to visualize equipment performance, production trends, and safety metrics, advancing plant efficiency.
- **Trained 30+ users** across 4 different units including unit heads and operation managers on digital tools, ensuring smooth adoption and providing continuous support.

Epsilon

Bangalore, India

Data Engineer

June 2021 - July 2023

- **Extracted and processed campaign data** from Azure Blob Storage using Azure Data Factory and PySpark enabling targeted segmentation and an impactful personalized outreach with email open rates at 31.3%.
- **Collaborated with DevOps to implement CI/CD pipelines** using Git for version control and Docker for containerizing applications, achieving significant reductions in deployment errors and improving reliability.
- **Utilized VLOOKUP and Pivot Tables** to clean and analyze 20K+ rows of campaign data in Excel on a weekly basis.
- **Leveraged ServiceNow for Level 2 and Level 3 support**, creating and managing RITMs to troubleshoot database queries, track issues and ensuring minimal downtime.
- **Automated daily scraping of email metrics** with Selenium, cleaned 500K+ records with pandas/NumPy, and visualized A/B test results in Matplotlib to boost open rates by up to 70.5%.

TECHNICAL SKILLS AND CERTIFICATIONS

Programming Languages: Python (6+ years), SQL (6+ years), PySpark, Scala, TypeScript, PowerFx, DAX, Bash

Frameworks: React, Flask, Flutter

Cloud Technologies: Amazon Web Services S3, EC2, Lambda, RDS, Glue, Redshift, Athena, Batch, Sagemaker, CloudFormation, Step Function, SQS, SNS, SES

Databases: MySQL, Microsoft SQL Server, Oracle Database, DynamoDB, MongoDB, Azure Cosmos DB

ML & Generative AI: TensorFlow, PyTorch, Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), NLP, text classification, Amazon Bedrock, Azure OpenAI, LangChain, Vector Databases

Data Engineering & Automation: Data Pipelines, ETL, Workflow Automation, Serverless Architectures

Microsoft Tools: Power Apps, Power Automate, Power BI, Power Query

Visualization Tools: Tableau, Power BI, QlikView, Heat Map

CI/CD: GitLab, Jenkins, Azure DevOps

Ticketing Frameworks: ServiceNow, Jira

Testing Methodologies: Agile, UAT, A/B, Unit Testing

Certifications: AWS Certified Cloud Practitioner (AWS), Supervised Machine Learning: Regression and Classification (DeepLearning.AI), Data Engineering on Microsoft Azure (Microsoft), Data Analysis with Python (IBM), Web Design: Real-World Coding in HTML & CSS (Udemy), Advanced C Programming (CISCO), AI For Everyone (DeepLearning.AI), IT Fundamentals for Cyber Security (IBM), Social Psychology (Wesleyan University)

INTERNSHIPS AND RESEARCH

MicroCharity Trust

Bangalore, India

Application Developer

February 2021 - May 2021

- Developed an Android application for MicroCharity.com using Flutter and Android Studio, enabling micro-donations for charitable causes, which attracted 100+ new users within the first month of launch.
- Integrated Firebase for real-time data retrieval and REST APIs for seamless functionality, ensuring a 99% uptime and smooth user experience.
- Implemented RazorPay payment gateway to securely process user donations, achieving a 95% success rate in transaction processing.

IoT-Based Intelligent Approach Towards Sericulture Using Image Processing

January 2020 - March 2020

Researched and worked on an Artificial Intelligence powered system to refine sericulture, boosting process efficiency by 25%. Published a research paper and constructed a functional prototype, demonstrating the application of AI in agricultural innovation.

AdviNOW Medical

Scottsdale, Arizona

Software Engineering Intern

April 2019 - June 2019

- **Conducted regression testing** on AdviNOW's medical kiosk, identifying and reporting 50+ bugs in Jira, elevating software reliability by 20%.
- **Collaborated with the development team** to streamline testing procedures, reducing testing cycle time by 15% and accelerating project deployment.

EDUCATION

Christ University

Bangalore, India

Bachelor of Science (Computer Science), Graduated First Class

May 2017 - May 2021

Key Coursework: Data Structures and Algorithms, Database Management, IoT, AI, and Cloud Computing

POSITIONS OF RESPONSIBILITY

- Senior Editor, CAPS
- Coordinator of Logistics Team, Magnovite
- Supervisor, Future of Cyber Security Competition

July 2020 - May 2021

May 2020

February 2019