

DHOBY SCHON FITZ BUMACOD

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A software developer capable of streamlining business processes through identification and automation of repetitive processes, and providing effective business solutions. Seeking a dynamic, and cross-functional role to leverage technical expertise to drive engineering excellence.

Work Experience

Software Engineer, Arch Global Services

April 2025 - Present

KEY TECHNOLOGIES: AZURE FUNCTIONS, SQL, SNOWFLAKE, PYTHON, OOP

Tasked with supporting the technical implementation of predictive models, and analytical tools developed by the team by leveraging strong Python and API experience, as well as user-facing application support experience.

LOGGING SYSTEM MODERNIZATION

KEY TECHNOLOGIES: PYTHON, APPLICATION INSIGHTS, AZURE FUNCTIONS

- From sending log data to databases, we opted to use an Azure-managed service called Application Insights for our APIs. This change resulted in simplified code - reduced database calls, and log data configuration, reduced overhead - eliminated the need for database management and configuration, data dashboards - application insights allowed us to create custom data boards based on the logs recorded.

STREAMLINED DATA FLOW

KEY TECHNOLOGIES: SNOWFLAKE (TABLES, STREAMS, TASKS)

- Automated data processing, and transformation from a single table to several downstream tables using event-triggered snowflake tasks and streams for different projects. This centralized the data entry point of the projects, offloading data transformation, and processing logic from the application. the logs recorded.

Software Developer, Globe Group

Feb 2023 - April 2025

WORKFORCE MANAGEMENT APPLICATION

KEY TECHNOLOGIES: TYPESCRIPT (NODEJS, JEST, EXPRESS), MONGODB, KUBERNETES, GCP, REST APIS

- Developing a ground-up workforce management web and mobile application responsible for assigning, managing, and tracking installation and repair requests, and human resources.
- Developed REST APIs that validates, transforms, and processes inputs, and perform CRUD operations to or from MongoDB collections to fulfill user requests.
- Created validation, authentication and authorization middlewares, allowing stateless role-based access on all requests received.

GITOPS-HOSTED RPA

KEY TECHNOLOGIES: PYTHON (SELENIUM, PANDAS), GITLAB CI, DOCKER

- Developed a Robotics Process Automation (RPA) using Python that emulates human interactions with an internal website, estimated to save 91% FTE or 15 hours per month.
- Initially configured the RPA bot to scan google drive folders for input, perform sets of actions based on the folders, files, and data which include validating data, interacting with a website, moving and generating files, and producing business and application logs.
- Further improved solution by containerizing the RPA and hosting it on Gitlab. Upon pushing changes on a repository (requested from front-end) a series of GitOps pipelines will run based on the file uploaded, and generate a response accordingly.

CHATBOT DEVELOPMENT WITH AZUREOPENAI

KEY TECHNOLOGIES: PYTHON(LANGCHAIN), AZURE (AZUREOPENAI, COSMOSDB, FUNCTIONS, RDS, MSSQL)

- Spearheaded the development of large language model (LLM) chatbots with through Microsoft's AzureOpenAI hosted using Azure App Service and Azure Functions.
- Through customizing GPT3.5/GPT4 using Python and Langchain prompt engineering, and data chunking, the chatbot was able answer queries it has ingested from unstructured documents (through google drive upload), and structured documents (stored in Azure SQL) in English, and in our local dialects.

AUTOMATED DAILY BATCH DATA PROCESSING

KEY TECHNOLOGIES: PYTHON, AWS (LAMBDA, DYNAMODB)

- Developed a python-based lambda function that runs on a daily on a cron schedule.
- Upon trigger, the function reads and fetches user data from timestamped DynamoDB table for entries for the last 15 days, and runs a validation process. Based on the set conditions, the lambda may clear, send reminder notifications, or block the users.

Technical Cadet, Globe Group

June 2022 - Feb 2023

Took part in a 6-month program that equipped participants with competitive programming skills, and cloud engineering with AWS. In addition, AI concepts were also introduced, specifically the field of Machine Learning with Amazon SageMaker.

AUTOMATED DATA VALIDATION PIPELINE

KEY TECHNOLOGIES: PYTHON (PANDAS, GEOPANDAS, NUMPY, MATPLOTLIB, SHAPELY) AWS (EVENTBRIDGE, LAMBDA, TEXTTRACT, S3)

- Developed an automated multi-part validation process as part of maintaining a machine learning model workflow that saved up to 2 hours per day and finishes in under a minute per run.
- The validation process includes reading data from an external website, data storage, cleaning, validation, and processing, and comparing it against data predicted by the machine learning model.

Computer Operator, Change Healthcare

October 2020 - June 2022

Mainly responsible for ensuring operations standards are maintained, daily procedures and tasks performed are documented, and customer's concerns are attended to.

EDUCATION

Mapua University

June 2021

Bachelor of Science, Major in Computer Engineering

Awards And Certifications

Mapua University

- Academic Excellence Award 2017
- Academic Excellence Award 2018
- Academic Excellence Award 2019
- Academic Excellence Award 2020

Amazon Web Services

- AWS Certified Solutions Architect - Associate
- AWS Certified Developer - Associate
- AWS Certified Sysops Administrator - Associate

Technical Skills

Application / Backend Development

- Python, Pytest
- Typescript, Nodejs, Jest
- HTML, CSS, Javascript, React
- MongoDB, DynamoDB, SQL
- Shell Scripting
- Java

Cloud Engineering / DevOps

- AWS, Azure, GCP
- IaC with Terraform
- Gitlab CI, Github Actions
- Docker, Kubernetes, Helm