SHUBHAM PRASAD PEDNEKAR

Dallas, TX | shubhamprasadpednekar@gmail.com | +1 (716) 815 0972 | LinkedIn | Github

EXPERIENCE

IT Software Engineer, Sr. | Health Plan of San Joaquin (Contract) — Nov 2024 - Aug 2025

- Developed 10+ Single Page Web Applications (SPAs) with **Python Django** Framework backend and **React JavaScript** frontend and **Tailwind CSS** for Pharmacy and Compliance teams built to visualize and submit critical member data.
- Engineered 40+ **Extract Transform Load (ETL)** jobs for **Electronic Data Exchange (EDI)** workflows using **dbt (Python + SQL)** and **Apache Airflow** streamlining data exchange for claim adjudication for 300000 members.
- Maintained secure **RESTful HTTP API** microservices to serve aggregated data via **MS SQL (T-SQL)** Stored Procedures.
- Integrated Role-Based Access Control (RBAC) multi-tenancy through **Azure Active Directory (Entra ID)** groups into Okta Auth0 to configure authentication logic for internal tool Single Sign-Ons (SSOs).
- Owned **Jenkins** CI/CD jobs triggered on pull requests to build versioned Docker images for deployment to UAT for testing and production after merge using **AWS Elastic Container Registry (ECR)**.
- Utilized **Terraform CLI** and **HCL** scripts to transform manual deployments to **IaC** driven cloud infrastructure deployment across **AWS API Gateway, AWS S3, AWS EKS**.
- Supported **Agile SCRUM** Project Management in **Azure DevOps** and **Github Projects/Wiki** to maintain team projects, user stories, and analytics.

Software Engineer | Gainwell Technologies (Contract) — Jul 2024 - Nov 2024

- Engineered file exchange portal dashboard in **Python FastAPI** Framework, **React Javascript** (Material UI) to facilitate AFS file exchange between clearinghouses and health insurance providers and generate event notifications.
- Maintained **SQL Server Integration Services (SSIS)** workflows to integrate **SQL Stored Procedures**, **AWS Lambda** API Web Hooks, NFS, **AWS S3** API and SMTP servers to create and distribute AFS Files and Reports to clients.
- Implemented **AWS Cognito** to manage customer identity and access (CIAM), including **SSO** via **SAML** exchange.
- Leveraged **Terraform** to deploy secure **Python RESTful** endpoints on **AWS cloud ecosystem** including **AWS EC2**, **AWS Lambda** and **AWS Kubernetes Service (AKS)** to capture customer events to **AWS DynamoDB** and **DocumentDB**.

Software Engineer | Buffalo Niagara Medical Campus (CCR) — Aug 2023 - Jul 2024

- Leveraging **Python Django**, **HTML**, **CSS**, **MongoDB**, and **Redis** to develop SLURM module for CCR's ColdFront platform enabling academic researchers to submit, compile, and execute HPC programs on the compute cluster.
- Integrated **OpenLDAP**-based IAM for secure authentication and authorization, deployed as an **OpenStack** plugin.
- Authored **C++** programs into **PyTest** Python testing suite for testing scaling, networking, storage and logging.
- Automated **Docker** image builds and releases to **GitHub Container Registry** and **Docker Hub** via a **GitHub Actions** CI/CD pipeline, streamlining deployments.

Software Developer | GeekWork — Jan 2021 - Nov 2021

- Established Real-Time, Event-Driven Backend for NIDO Workz **Python Django** Web **ERP** App via **Postgres SQL Database (PL/SQL)** to observe status of factory automation robots using **jinja** templates, **Bootstrap CSS** and **jQuery**.
- Managed **Python (Flask Framework)** microservers and clients on embedded systems. These systems were used to deliver **JSON**-encoded robot states to **Celery** Message queues.
- Designed **RESTful API** endpoints for real-time and on-demand data retrieval via HTTP fetch calls to update UI views.
- Integrated **Active Directory (AD)** groups for streamlined CIAM, user pool provisioning and RBAC.

EDUCATION

M.S. in Computer Science and Engineering | State University of New York at Buffalo — Feb 2022 - Jun 2023
B.Eng. in Computer Engineering | University of Mumbai — Aug 2017 - May 2021

SKILLS

Python (Django, FastAPI, Flask, dbt, Pandas, NumPy, PyTest, Selenium), AWS (Lambda, S3, EC2, API Gateway, ECR, EKS, Cognito, CodePipeline, SNS/SQS, boto3), CI/CD (Jenkins, GitHub Actions, Terraform, Docker, AWS CodePipeline), Databases (PostgreSQL, MSSQL, T-SQL, PL/SQL, MongoDB, DynamoDB, Redis), Web (React, Kendo UI, Tailwind, Material UI, Bootstrap, HTML, CSS, JavaScript), Auth & Security (Okta, Auth0, SAML, RBAC, Azure AD, OpenLDAP), Tools (git, VS Code, Postman, Splunk, Airflow, SSIS, Celery, Jinja, PowerShell), Visualisation (Tableau, Power BI)