

# Renadh Chowdhury

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## INTRO

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A multi-faceted software engineer with **6+ years** of professional experience, proficient in Platform Engineering mainly Automation, Internal Tooling, DevOps & Public Cloud. Proven track record of managing and delivering impactful projects with end-to-end ownership across diverse technical domains. Adept at seamlessly transitioning between roles to meet evolving project demands.

## TECHNICAL SKILLS

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**Languages:** Python, Java, TypeScript, JavaScript, Groovy, SQL

**Frameworks:** Node.js, Flask, Serverless, Kafka, Karate

**Developer/SRE Tools:** Git, Docker, GitHub Actions, Jenkins, New Relic, Lando, Ansible, Maven, npm

**Libraries:** PySpark, pandas, NumPy, Matplotlib, Selenium WebDriver, BeautifulSoup, Serverless Offline

**Cloud:** AWS, Azure, AWS Lambda, AWS SQS, AWS SNS, Azure Container Registry, Azure Kubernetes Services, CloudView

## PUBLIC PROJECTS

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**projectX - Data Engineering Project** | *Python, PySpark, Docker, Kubernetes, Azure*

- Utilize **PySpark ML features - StringIndexer and VectorAssembler** to process the dataset
- Employ **PySpark's ML Linear Regression Model** to predict total bills for each customer based on independent features
- Evaluate model performance using key metrics: **coefficients, intercept, R-squared, Mean Absolute Error, and Mean Squared Error**
- Leverage **Docker, Azure Container Registry & Azure Kubernetes Services** resources for deployment and validation
- GitHub link - [github.com/renadh12/projectX](https://github.com/renadh12/projectX)

**thebloglog - CRUD Web App** | *Python, Flask, JavaScript, SQLAlchemy, HTML/CSS, Bootstrap*

- Develop a full-stack **CRUD web app** for blogging
- Deploy to **Linode Server** with **Nginx** using **Gunicorn**
- GitHub link - [github.com/renadh12/FlaskWebApp](https://github.com/renadh12/FlaskWebApp)

## PROFESSIONAL EXPERIENCE

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**Senior Software Engineer**

Sept 2022 – Present

*Visa Inc.*

*Austin, TX*

- Lead the design and development of **Java based Karate framework for real-time global API Validations in Production** across **5 data centers** for **EMV 3DS Authentication flows** leveraging **Java, Kafka, ACCM Vault, Test Access Control Server, Test PANs and Jenkins**
- Develop and maintain **VVMS Qualys/TSR Findings** weekly reporting tool for patching vulnerabilities for **20 applications** across **Risk & Authentication** platform using **Python, VVMS API & Jenkins**
- Own, develop and manage **CI/CD pipelines, admin credentials configuration, ansible playbooks** to automate setting up **Springboot/JWS app/web servers**, and build, test, deploy to prod and non-prod using Jenkins for several **VASPD** teams
- Responsible for **provisioning service ID accounts and vaulting the credentials in ERPM** for several applications within Visa Secure; working directly with **CyberSecurity/Access Management** teams
- Handle all **Firewall requests** for Visa Secure through **Tufin** and **CloudView**
- Develop a **Java Vault Utility** class to establish secure connections to **ACCM Vault**, enhancing secure credentials storing

**Software Engineer, Platform Tools & Automation**

Dec. 2020 – Sept. 2022

*FOX Corp.*

*New York, NY*

- Build **event-driven Lambda** functions to reorchestrate CI/CD process and Slack integration split into control and data planes. **Stack: TypeScript, Python, AWS Lambda, SNS, SQS, Slack API**

- Develop, maintain and manage internal tool for seamless, quick **local development setup and onboarding** for any given project. **Stack: JavaScript, Lando, Docker, Shell**
- Refactor custom **GitHub Actions** written in **TypeScript**
- Leverage **AWS Serverless Framework** to integrate custom Lambdas into internal tool as mock services for **backend development**. **Stack: JavaScript, AWS Lambda, SQS, S3, Serverless Offline, NodeJS, SQS, SNS, Docker Compose**
- Perform **Technical Writing** - code documentation; author and draft project proposals

## Founding Partner, Lead Engineer+PMO

Feb. 2020 – Sept. 2022

*Next Level Sports Management*

*New York, NY*

- Meet with stakeholders to discuss website design & function for both **backend & frontend development**
- Create and design the website architecture, convert wireframes into responsive HTML web pages using **WordPress, Elementor plugin & JavaScript**
- Build and implement **Player Database, Profile, Registration, Contact, Programs** pages using **WPForms & Pods** plugins serving **60 NLSM Athletes, affiliated universities & clubs** around the globe

## Software Engineer

Mar. 2019 – Aug. 2019

*Red Ventures*

*Austin, TX*

- Lead the development of automation test framework for TPG US website that brings in **10 million monthly unique visitors, generating over \$50 million in profits in 2019-20**. **Stack: JavaScript, Cypress and Selenium Webdriver**
- Write and set up automated scripts in **JavaScript** on **New Relic Synthetics** to monitor user flows, critical business transactions and API endpoints across multiple websites with Slack alert notification services for stakeholders, reducing latency by 10%

## Software Engineer

Aug. 2017 – Mar. 2019

*Affinity Solutions Inc*

*New York, NY*

- Plan, design, develop a modular and robust full stack automation test suite reducing bugs reported by client by **15%**. **Stack: Python, Selenium WebDriver, XPath, PyTest, requests, HTML, cron**
- Spearhead validation effort for multiple web app redesign projects in a Loyalty Program platform for prominent FI and card provider programs that generates over **\$2 million in annual revenue and scale to 10 million cardholders**
- Develop a Python script that enabled PMO, QA & BA teams to increase validation and reporting speed by 80%
- Collaborate and communicate directly with other engineers, Data, UI/UX, QA, PMO & Client Relations teams following an **Agile SDLC** model. Mentor and assist software engineering interns

## EDUCATION

### Texas Tech University

Lubbock, TX

*Bachelor of Science in Civil Engineering*

### NYC Data Science Academy

New York, NY

*Data Science with Python: Data Analysis and Visualization*