



# Patrick A. Jain-Taylor

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## Cloud Architect



Professional Cloud Architect with 7+ years of experience in Information Technology in Financial Services. Skilled in Amazon Web Services, Python, and Networking. Strong focus on leadership, team building, and organizational advancement. How can I help?

Contact me

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## Experience

### **Eaton Vance Management, a Morgan Stanley company**

#### **Cloud Architect, Core Services • Jan. 2019 — Present**

Subject matter expert on all things cloud, leading efforts in architecting, engineering, and operating in AWS.

- Transformed Core Services team from an ad-hoc collaborative pod to a 9 member team of engineers and developers, while serving as team leader and architect.
- Designed Terraform account vending machine & multi-region landing zone for 50+ AWS accounts across the organization, reducing the lead time on new accounts from multiple days to 1 hour, while ensuring a consistent environment for each application team.

- Architected & deployed infrastructure for 70+ public websites using infrastructure-as-code and automated deployment pipelines, while shifting responsibility "left" to the development team.
- Designed pull- & push-based logging mechanisms for various AWS logs types to Splunk, eliminating cost of cross-account replication & duplicate log retention and implementing charge back to the application teams.
- Responsible for templating & design of 150+ module Terraform service catalog, with the goal of shifting "left" of infrastructure-as-code to developers; includes actively-maintained READMEs, semantic versioned releases, and backward compatibility for Terraform & provider version updates.
- Leveraged private & public Route 53 Hosted Zones and AWS Certificate Manager to address growing sprawl & cost of our manual certificate generation & rotation process, reducing lead time by 2 weeks and cost by \$1000+ for each certificate. Developers deploy a single Terraform module to secure & resolve their workloads from on-premises and, if necessary, from the public Internet.
- Modularized our multi-region AWS core networking architecture, including edge web traffic inspection, load balancer sandwiching, and inter- & intra-VPC networking, to ensure a secure network at the edge while also ensuring new accounts can be accessed both on-premises and within AWS with little administrative action.

## **Eaton Vance Management**

### **Network Automation Engineer • Oct. 2017 — Jan. 2019**

Focused on automating traditional enterprise networking infrastructure with Python scripting and Ansible playbooking.

- Designed network solutions and maintain service levels across 20 datacenters and remote offices.
- Introduced end-to-end workflow automation via Ansible and Python to infrastructure teams & management.
- Led liaising with engineers & business stakeholders to integrate acquisition networks.
- Drove efforts to standardize network infrastructure, and implement operations training for junior engineers.
- Participated on pilot team to implement Agile workflow and cross-team collaboration for infrastructure team.
- Worked with network visibility vendors to produce single pane-of-glass for identifying network pain points.

## SS&C Technologies

**Network Engineer • Oct. 2013 — Oct. 2017**

Progressed from site-to-site VPN & firewall administration to design & deployment branch office and datacenter networks.

- Single point of contact for network troubleshooting and monitoring of 80+ global offices and datacenters.
- Built Solarwinds alerting & monitoring system to provide Helpdesk with necessary info for circuit outages.
- Built relationships and coordinated upgrades with local IT staff of our offices as large as 400+ users.
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## Columbia University

**Various Roles, Columbia University Information Technology (CUIT) • Sept. 2012 — May. 2014**

- **Lab Consultant** responsible for support of lab patron needs.
- **UI Developer & Administrator** responsible for maintenance of Perl & Oracle DBM-based wiki for fellow consultants.

## General Dynamics

**Intern • May. 2013 — Aug. 2013**

Responsible for supporting on-the-move (OTM) and at-the-halt (ATH) military ISP architecture.

## Providence College

**Various Roles, Providence College Information Technology (PCIT) & Ghana Sustainable Aid Project (GSAP) • Sept. 2010 — Aug. 2012**

- **Computer Technician for PCIT** responsible for maintenance and deployment of faculty workstations.
- **Community-Based Service Intern in Accra, Ghana** responsible for developing a computer image in Ubuntu Linux for the Ghana Sustainable Aid Project (GSAP)'s Education Portal, for use in an internet cafe within Pokuase Village in Ga West, Ghana.

- **Research Assistant for GSAP** responsible for modeling a toilet prototype in Google Sketchup for use in developing nations.
- **Helpdesk Assistant for PCIT Helpdesk** the first line of defense for Providence College Information Technology.

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## Certification

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### **Terraform Associate**

Hashicorp • 2020

### **Cloud Solutions Architect - Associate**

Amazon Web Services • 2019

### **Programming with Python**

Codecademy • 2018

### **CCNA Routing & Switching**

Cisco • 2015

### **CCENT**

Cisco • 2015

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## Education

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### **Columbia University**

Bachelor of Science, Electrical Engineering • 2012 — 2014

### **Providence College**

Bachelor of Arts, Pre-Engineering • 2009 — 2012

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# Skills

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## Cloud Computing

I have been interested in cloud computing since 2014, starting by maintaining site-to-site VPNs to AWS. This has evolved to building small serverless microservices, as well as designing logging and modern web architectures. In my latest endeavor, I am driving design & maintenance of our organizations' account vending machine & landing zone.

## Team Leadership & Management

My career has evolved from operating as an individual contributor to leading teams of operators, engineers, and architects as part of our Core Services. My ultimate goal is C-suite level management, in order to deliver large-scale organizational value through modern technology.

## Open-Source & Closed-Source Development

I make strident efforts to design with open source in mind, whether through development of my own projects or contributions to existing projects. Where closed-source is required, I am avidly documenting specifics in our internal wiki, while providing usage instructions for developers to consume these projects effectively.

## Infrastructure-as-Code

Through the use of Hashicorp Terraform and AWS CloudFormation, I have designed numerous playbooks and modules for many internal consumers, for resources varying from security groups, to common internal architecture patterns, to automated DNS & PKI infrastructure to ensure one-click security of our web services.

## Networking Technologies

I have worked on various routing architectures, from traditional hub-based networking, to enterprise-grade routing and switching, to application-centric infrastructure, microsegmentation, and software-defined networking.

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# Technologies

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## **Cloud Computing**

AWS Certificate Manager, CloudFormation, CloudFront, CloudWatch Logs, Config, Direct Connect, DynamoDB, EBS, EC2 Auto Scaling, ECR, Elastic Load Balancing v1 & v2, EventBridge, IAM, Kinesis Data Streams & Firehose, KMS, Lambda, PrivateLink, RDS, Route 53, Route 53 Resolver, S3, Security Groups, Secrets Manager, SNS, SQS, Step Functions, Transit Gateway, VPC, WAF

## **Infrastructure as Code & Configuration Management**

Terraform, Ansible

## **Continuous Integration & Continuous Delivery**

Github Actions, GitLab Runner, Jenkins

## **Programming Languages**

Python, Golang, C++, C

## **Agile Technologies**

Atlassian Jira, Confluence, Trello

## **Networking**

Cisco, Juniper, Aruba, Palo Alto Networks

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# **Personal Projects**

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## **The Jain-Taylor Family Cookbook**

**Developer • 2020 — Present**

This is a personal project to maintain our family recipes in source control, using Jekyll & Github Pages to render the updated Markdown.

## **Resume**

**Developer • 2021 — Present**

This is a personal project to keep my resume up to date, using a combination of Github Actions and Terraform Cloud to build the repository, and using Jekyll & Github Pages to render YAML.

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## Associations

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### Hack.Diversity

#### **Mentor • 2021**

Hack Diversity is a talent provider of Black & Latinx technologists, supporting underrepresented talent with a yearly fellowship, incubator, and other programs. I am serving both as a mentor to one of the 2021 fellows, as well as providing educational opportunities related to cloud technologies.

### Habitat for Humanity

#### **Builds coordinator • 2013 — 2014**

Developed new programs for our Habitat volunteers to participate in with the goal of learning more about the housing issues in New York City, and aim to discover local organizations with which to improve the Columbia community and to help our builds OCMs with their duties and responsibilities.

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Inspired by [@jglavier](#). Source project can be forked from [GitHub](#).