

# JOHN N. MOREIRA

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## EDUCATION & SOFTWARE EXPERTISE

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### B.S., COMPUTER SCIENCE, NEW JERSEY INSTITUTE OF TECHNOLOGY

Programming Languages: Python, Java, JavaScript, PowerShell, C++, SAP ABAP

Applications: VMWare Ecosystem, Kubernetes, Jenkins, Apigee, ServiceNow, Splunk, Ansible, NGINX

## SELECTED EXPERIENCE

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### JPMORGAN CHASE & CO, Jersey City, NJ

Jan 2022 – Present

#### *Software Engineer, Infrastructure*

- Created a Flask-based Python application named “Strato”, deployed to Kubernetes, which interfaces with 35+ VMWare vRA instances in JPMC datacenters worldwide. Serves highly customized Compute, Network, and Storage information to Wholesale Compute customers within JPMC.
- Implemented OAuth authentication and authorization within “Strato” for both logged in SSO desktop browser users as well as API to API non-interactive accounts used by applications.
- Implemented FluentBit Sidecar logging for “Strato”, including usage metrics via Prometheus.
- Maintain 2 large Python code repositories which control and deploy the software, ABX actions, vRO workflows, configuration, and lifecycle of JPMC’s 35+ vRA environments and their VMs.
- Created the necessary software customizations to expose Nvidia A100 GPUs to VMs in vRA.
- Maintain multiple Jenkins pipelines integrating code deployment on dev/ut/prod with unit testing.
- Deployed the entire JPMC vRA software stack to customized restricted environments with only CLI access, no Jenkins build pipeline, and wrote the necessary code customizations, such as cert-based auth.
- Wrote automation to build and configure new vRA environments via software pipelines.
- Executed countless biweekly production releases, working with and notifying stakeholders.

### PRUDENTIAL FINANCIAL, Roseland, NJ

Oct 2017 – Dec 2021

#### *DevOps Engineer, Virtualization*

- Created VMWare vRA 8 Blueprints for provisioning of private cloud Windows and Linux servers. Configuration includes networking, CPU/RAM/Disk selection, and rapid delivery of servers in minutes. Call various Ansible and ServiceNow REST API actions post deployment.
- Developed frontend UI on ServiceNow using JavaScript and backend using Jenkins, Apigee, and Ansible for virtual Windows and Linux server on-demand modification of CPU/RAM/Disk.

#### *DevOps Engineer, Storage & Backup*

- Automated NAS, SAN, and Object storage provisioning with hardware from NetApp, Dell, Hitachi, and Veritas using REST APIs and custom scripting. Automated backup policy creation for NAS shares.
- Created multiple frontend UIs on the ServiceNow platform to serve as the landing page to our Storage and Backup products and connected our automation to these pages. Pages and workflow automation developed using JavaScript and the ServiceNow platform features. Features included hands-off automated provisioning, service tier customization, emailing, billing, ticketing, and error handling.
- Developed diagnostic tools such as a NAS share diagnostic tool which scanned Active Directory group/user permissions and contrasted them with NetApp NAS and Dell Isilon Storage configuration to determine NAS share access status for both AD accounts and servers.
- Programmed a Java CLI application which implemented AWS Glacier APIs to provide upload, download, delete, and DynamoDB Storage functions.
- Created dashboards on Splunk and ServiceNow, and automated spreadsheet generation.

## PERSONAL PROJECTS

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Personal Website and Server: <https://zors.dev> | GitHub: <https://github.com/jnm26>

- Zors.dev is my online file share with photo gallery. NGINX based and runs on my own hardware with my own networking inside WSL. Operate game servers and more. It’s my personal mini cloud.

prIDE - GitHub: <https://github.com/brandonrninefive/prIDE>

- A free online IDE with real-time code editing supporting multiple users editing the same file at once and GitHub integration.

SIG Melee - <https://www.youtube.com/user/sigmelee>

- Created club which held weekly meetings and hosted on-campus tournaments for competitive Super Smash Bros. Melee. Live-streamed Melee events in the NJ/NY area on our channel.