

# JULIUS PETRE

## Cloud Engineer

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## PROFESSIONAL EXPERIENCE

### Cloud Security Engineer

May 2023 – Nov 2024

Collabera / Ascendion Digital (Client: Union Bank of the Philippines)

Meralco Avenue, UnionBank Plaza Bldg, Pasig City

- Configuring Transit Gateway peering, routing traffic, and managing network properties like EC2 security groups that helps to the enhancement on the ongoing data migration from CITI Bank Infrastructure going to UnionBank Infrastructure.
  - Implementing security policies for AWS S3 and assisting with the configuration of AWS Direct Connect and AWS Privatelink.
  - Managing AWS VPC, Security Groups, CIDR ranges, and network infrastructure for projects and whitelisting and blocklisting IPs and ports in AWS Security Groups.
  - Monitoring VPC CloudWatch logs, managing runbooks for AWS processes, and ensuring systems are running as required.
  - Awarded and presented with a “COST SAVER AWARD” by the client:  
[https://drive.google.com/file/d/1PxDaesl2SAjYujmONwiYBjb4zP5L05w\\_/view?usp=sharing](https://drive.google.com/file/d/1PxDaesl2SAjYujmONwiYBjb4zP5L05w_/view?usp=sharing)
    - Outstanding achievement in streamlining operations and optimizing resource utilization on the client's AWS infrastructure has resulted in significant cost reductions. This accomplishment is recognized by this award, which celebrates innovative strategies and dedicated efforts.
- Configuring AWS environments for projects, including managing permissions through Azure SSO and AWS KMS to enhance security infrastructure and implement best practices on the ongoing migration.
  - Working with AWS services like CloudFormation, IAM, and SSO to manage resources, roles, and user permissions. Assisting in the setup of AWS resources such as RDS, Lambda, Glue, SageMaker, and Redshift.
  - Assisting developers and DBAs with tasks related to AWS services, including data integration and provisioning resources.
- Contributing to the creation and maintenance of security policies and incident response plans.
  - Assisting in decommissioning AWS accounts and coordinating security requirements with CyberSec and InfoSec teams.
- Configuring and provisioning IBM resources as required, and decommissioning resources when no longer needed related to a cryptocurrency and Blockchains projects for the UnionBank.

### Sr. Service Engineer

October 2022 – March 2023

MAYA / Paymaya

Launchpad Building, Sheridan, Mandaluyong, Metro Manila

- Configuring AWS resources, such as managing SFTP users and whitelisting IP addresses with AWS Transfer Family using Terraform. Overseeing AWS ECS and EKS, optimizing AWS services, including Elastic Clusters for handling large data volumes. Implementing AWS tagging best practices and managing serverless architectures, including ECS Fargate and microservices.
- Working closely with developers to maintain both environments and legacy systems. Providing support for daily database queries and backend modifications, including managing user access.
- Leveraging infrastructure-as-code tools such as Terraform and CloudFormation to deploy and manage infrastructure. Configuring WAF to mitigate OWASP, along with managing Puppet on EC2 instances. Overseeing the upgrade of AWS ElastiCache node types and engine versions.
- Managing and monitoring Aurora DB (MySQL) and PostgreSQL RDS instances, including performance optimization, upgrades, and user access control. Overseeing database patching and engine version updates.
- Utilizing log management tools such as Splunk to monitor infrastructure, while ensuring security by configuring WAF and managing access controls.
  - Serving as an L2 engineer, available 24/7 for on-call support.

**Cloud Engineer / Project Officer**  
*Hive Philippines*

*November 2021 – August 2022*  
*Filinvest One Building, Northgate Cyberzone, Alabang, Muntinlupa City*

- Established and maintained AWS CI/CD pipelines, utilizing Elastic Beanstalk for efficient development and production deployments. Automated processes and provisioned resources through CloudFormation, Lambda, and other relevant AWS services.
  - Troubleshooted and resolved complex issues with Elastic Beanstalk and other AWS services.
  - Improved monitoring and alerting capabilities by deploying and configuring unified CloudWatch agents on Linux and Windows systems.
  - Automated deployment processes and implemented proactive monitoring with AWS features.
  - Integrated AWS Cognito for robust application authentication and managed repository access with GitHub.
- Experienced in developing and deploying cloud-based applications. Proficient in authoring CloudFormation YAML templates and adhering to AWS best practices.
- Managed AWS IAM policies, roles, and access permissions for developers and engineers. Implemented secure credential storage using AWS Transfer Family (SFTP) and Secrets Manager.
- Supported office operations by providing technical assistance and administrative support. Resolved IT issues and managed IT equipment procurement for employees. Took an active role in establishing and managing a new Philippine office, providing essential technical and administrative support.
  - Developed IT security, incident, service, and technical management policies aligned with ISO standards for service and incident management.
  - Ensured device security and access control with Azure Intune. Administered Microsoft 365, Active Directory, and Office 365 to support business operations.

**Environment Analyst**  
*Primover Consultancy Services Inc.*

*June 2021 – November 2021*  
*Erechem Bldg., cor. Salcedo and V.A. Rufino Sts. Legaspi Village, Makati City*

- Leveraged AWS S3 to create and optimize storage solutions. Managed AWS resources and supervised production and development environments. Successfully migrated large volumes of data between S3 and Windows servers using AWS CLI.
  - Proficient in utilizing AWS services, including S3, EC2, VPC, and IAM. Experienced in working with Linux and Windows environments, SAS software setup, and network management.
- Successfully provisioned EC2 Windows Server 2019 instances for SAS and optimized storage for maximum usage. Managed user accounts and deployed Active Directory and DNS.
- Prioritized cloud security by developing and enforcing robust policies, leveraging AWS Policy Generator for IAM management. Ensured system security through regular audits, patch management, and updates. Supported network infrastructure by configuring Site-to-Site VPNs, network failover, and conducting bandwidth tests.
  - Identified and implemented encryption solutions for RHEL 8 and configured Red Hat environments for efficient data migration.
  - Ensured system health through performance monitoring, log analysis, and automated backup and disaster recovery. Provided technical support for cloud-related issues and assessed network performance with iperf tests.
- Managed budgets for cloud resources and provided solutions for improving AWS architecture and deployment.
  - Provided technical expertise through support, training, and documentation while collaborated with DevOps, network, and migration teams on infrastructure and networking tasks. From this collaboration, I also successfully executed tasks like whitelisting servers, managing Bastion Hosts, and setting up Internet gateways, Elastic IPs, and recovery zones.

**DevOps Engineer***Illimitado Inc.**October 2019 – June 2021**Cityland Tower II, 6817 Sr., Salcedo Village, H.V. Dela Costa, Makati City*

- Enhanced AWS cloud architecture and deployment for optimal performance and security.
  - Designed scalable and resilient EC2 instance architectures.
  - Effectively managed multiple AWS accounts with VPCs, optimizing costs.
  - Implemented efficient AWS CI/CD pipelines with Elastic Beanstalk, CodeCommit, CodeBuild, and CodePipeline.
  - Provided technical support to developers, including repository management (CodeCommit) and local repository troubleshooting.
  - Streamlined processes and enhanced quality through task automation.
- Managed AWS services (S3, Glacier, RDS, Route 53) and administered AWS EC2 Microsoft AD and user/group management on EC2 Windows instances. Maintained Linux systems and high-traffic websites. Managed local / On Premise Active Directory and Azure AD. Maintained documentation and performed PC maintenance, OS setup, and patch management.
- Contributed to project planning, resource allocation, and business case development.
  - Provided technical support to implementation officers, including client inquiries, software installations, and biometrics setup.
  - Resolved operational issues at client sites through on-site inspections and excellent customer service.
  - Strategically planned and implemented hybrid multi-cloud data center solutions. Aligned architecture designs with long-term technology roadmaps and cost-effective objectives.
- Proactively monitored website traffic and performance, leveraging CloudWatch alarms integrated with SNS topics for timely notifications.

**Sr. System Administrator***Blulemons Gaming Studio**April 2019 – October 2019**PhilCox Building, 4F, 172 Salcedo, Legazpi Village, Makati, 1229 Metro Manila City*

- Maintained game servers, including Windows Servers, AWS EC2, and AWS RDS.
  - Managed web servers and updated websites using WordPress.
  - Performed PC maintenance, including operating system setup and patch management.
  - Supported and maintained internet connections (PLDT/Globe) and coordinated with service providers.
  - Maintained email DNS servers via Route 53 and supported Mozilla Thunderbird for email management.
- Implemented SSL and encryption on AWS servers to enhance security.
- Set up and maintained code repositories using Dropbox, Git, FTP, and BitBucket.

**IT Specialist***Inoca Care**May 2018 – April 2019**Peninsula Court Bldg., Paseo de Roxas Corner Makati Ave., Makati City,*

- Improved AWS private and public cloud architecture, focusing on high availability and security best practices.
- Managed multiple AWS accounts for production and non-production environments, emphasizing cost control.
- Redesigned infrastructure for high availability using multiple AWS availability zones to ensure business continuity.
- Designed EC2 instance architecture and automated the start/stop process for non-production instances to optimize costs.
  - Created and managed S3 buckets, implemented appropriate policies, and utilized Glacier storage for cost-effective backups. Backed up Linux server data to S3 and managed domains and DNS settings via Route 53.
  - Developed and implemented software release strategies for agile projects.
  - Designed complex system interfaces, developed themes and plugins, and modified code as needed.
- Created and maintained documentation for build, release processes, and configurations, ensuring compliance with industry standards.
  - Maintained physical servers, transferring them to Digital Ocean Droplets for SFTP.
  - Performed PC maintenance, OS setup, and patch management.
  - Managed user accounts and domains in Azure Active Directory and Office 365 environments.

**Software Engineer**  
Altisoource Business Solution Inc.

September 2016 – January 2018  
Two E-Com Center, Harbor Dr, Pasay, Metro Manila

- Design, develop, and maintain features across various application modules, such as animations, user interface mechanisms, and dynamic document-driven lists.
  - Work closely with UX/UI designers to create user-friendly and visually appealing interfaces. Lead and maintain high-performance native iOS and Android applications used by a global user base.
- Create and maintain knowledgebase tools to document processes, enhancing team and user understanding of applications.
  - Mentor team members, perform code reviews, and ensure adherence to high-quality coding standards.
  - Coordinate between technical writers and developers to meet feature requirements and ensure accurate documentation.

**Jr. Software Engineer**  
Blulemons Gaming Studio

April 2015 – June 2016  
Legazpi Village, Makati, 1229 Metro Manila

- Resolve technical issues, perform application maintenance, conduct User Acceptance Testing, and research business logos specific to certain regions.
- Design and refine graphical structures for the user interface and improve logo graphics using tools like Adobe Illustrator.
- Develop and optimize gameplay mechanics, resources, and game flow modules. Contribute to the rebuilding of existing projects as a module developer and efficiently allocate data structures.

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## EDUCATION

**St. Dominic College of Asia | Bachelor of Science in Computer Science** | Bacoor City, Cavite | 2011 – 2015  
Concentrations: Convergent Media (Game Development), Robotics (Arduino), Computer Graphics and Artworks

## SKILLS & COMPETENCIES

### Technologies and Cloud Services

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- Good understanding and skills for **Cloud Computing, Web Development, Database, Networking, and Virtualization.**
  - Cloud Computing: **AWS, Azure, IBM Cloud**
  - Web Servers: **Linux, Ubuntu, IIS**
  - Source Code Repositories: **Github, Gitlab, AWS Code Commit**
  - Deployment and Automations: **Gitlab CI/CD, AWS CI/CD**
  - Infrastructure as a Code: **Terraform, CloudFormation**
  - Container and Orchestration: **Docker, Kubernetes**
  - Scripting: **Json, YAML,**
  - Database: **MySQL, MS-SQL, Postgre, MariaDB**
  - Monitoring Tools: **AWS Cloudwatch**
  - Project Management Tools: **Jira, Confluent, Trello, MS Planner, Monday.com**
  - Programming Language: **javascript, Python, C#**

### Personal

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Leadership | Project Management | People Skills | Adaptability | Decision Making | Collaboration | Organizational Know-How | Time Management

## CERTIFICATE & FILES

- <https://drive.google.com/drive/folders/1btk8RGcJUo9VPnYWpXddQa5R3H23Yne2?usp=sharing>