Philip Abdelmalak

Senior Cloud Packet Core Engineer

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Seeking a Core Network Engineer role where strong expertise in EPC, IMS, 5G Core, Kubernetes, and CI/CD can be leveraged to design, integrate, and optimize cloud-native telecom networks.

Education

2006 — **Bachelor of Engineering – Electronics and Telecommunications**
Benha University

2017 — **Diploma: Business Administration**
Ain Shams University

Work History

2018 - Current — **Cloud Packet Core Engineer – (Packet Core Team)**
Telecom Egypt, Cairo

Is Responsible For:
- Leading the operation and management of virtualized Evolved Packet Core (vEPC), DPI, and DNS systems.
- Operating Ericsson NFVi cloud-native core platform and applying knowledge of 5G network architecture and interfaces to support reliable deployment and operation.
- Troubleshooting and performing root cause analysis for network incidents.
- Preparing and executing Method of Procedure (MOP) configuration scripts.
- Reviewing high-level and low-level designs to validate system configuration.
- Performing system integration, verification, and optimization to enhance network efficiency.
- Optimize performance and scalability of Kubernetes clusters.
- Supporting CI/CD pipelines and automation tasks.
- Monitor and maintain the health of Kubernetes clusters.
- Delivering expert training and mentoring to operational staff.

2015 - 2017 — **Mobile Voice Core (IMS) Engineer – (Voice Core Team)**
Telecom Egypt, Cairo

Was Responsible For:
- Managing Ericsson IMS nodes (I/S-CSCF, TAS, SBG, HSS, DNS).
- Handling and resolving IMS system and network incidents with urgency.
- Preparing and executing MOPs and production network modifications.
- Coordinating and documenting acceptance testing with vendors and stakeholders.
- Monitoring and optimizing IMS network performance.
- Participating in integration activities with other systems.

2011 - 2014

Fixed Voice Core Engineer – (Fixed Core Team)
Huawei Egypt, Cairo.

Was Responsible For:
- Operating and maintaining Huawei IMS nodes (S/I-CSCF, TAS, IB), SBC, MGCF, AGCF, HSS.
- Troubleshooting fixed IMS network issues end to end.
- Testing and validating new nodes and features before deployment.

2008 - 2010

Site Engineer (Access Team)
Etisalat Egypt, Cairo.

Was Responsible For:
- Installing Huawei BTS/NodeB systems, microwave links (Huawei RTN, NEC).
- Mounting BTS cabinets, antennas, coaxial feeders, and MW links.
- Conducting site acceptance testing and quality inspections.
- Coordinating with teams for on-site integration and troubleshooting.

Achievements

- Key contributor to building Telecom Egypt's mobile network for both voice and packet core services.
- Successfully integrated and optimized multiple core network functions, resulting in improved network stability and reduced downtime.
- Led migration projects to cloud-native core platforms enhancing scalability and performance.

Qualifications & Certifications

Certified Kubernetes Administrator (CKA) – Linux Foundation, Sept 2024

Cloud Developer Nanodegree – Udacity, Nov 2021

Front End Web Development Professional Nanodegree – Udacity, Dec 2020

Cloud Computing Specialization (6 months) – University of Illinois/Coursera, Aug 2020

EPC Operation, Configuration and Troubleshooting Course – Ericsson Academy, Stockholm, Sweden, 2018

Huawei Network Planning Training (vEPC/vIMS) – Dubai, 2022

Evolved Packet Core Advanced Training – Raya, Egypt, 2018

IMS Operation and Configuration Course – Ericsson, Egypt, 2017

Skills

Professional Skills

- Leading cross-functional telecom engineering teams
- Network troubleshooting & root cause analysis (RCA)
- System integration & verification Preparing & executing Method of Procedures (MOPs)
- Network optimization & performance tuning
- Incident & change management (ITIL)
- Vendor coordination & acceptance testing
- Documentation (HLD, LLD, RCA Reports)

Personal Skills

- Strong communication & interpersonal skills
- Analytical thinking & problem solving
- Team leadership & mentoring
- Adaptability in fast-paced environments
- Time management & multitasking
- Decision making under pressure

Telecom & Cloud Skills

- Telecom & Networking: EPC (SGW, PGW, MME, PCRF), 5G Core, IMS (I/S-CSCF, TAS, SBG, HSS), DPI, DNS, NFVi
- Protocols: SIP, Diameter, SS7
- Cloud & DevOps: Kubernetes (CKA), Docker, Jenkins CI/CD, OpenStack, AWS
- Programming & Scripting: Python, JavaScript, Bash, REST APIs
- Operating Systems: Linux (RHEL, Ubuntu), Windows Server
- Tools: Wireshark, Git, Network Monitoring Tools
- Networking Concepts: TCP/IP, Routing & Switching, DNS, DHCP

Languages

- Arabic: Native

- English: Very Good

- German: Beginner (A1)

Personal Information

- Gender: Male

- Nationality: Egyptian

- Military Status: Completed