# Patrick A

**Senior DevOps Engineer**

Seeking a position where my education and rich experience can be utilized for mutual growth. To work in cutting edge technologies, achieve quality of perfection in my work. A fast learner, self-starter and can be extremely productive both as an individual contributor as well as a team player.

**Experience Summary**

* **20 plus** years of software development experience in planning, design, development, integration, and application support.
* Excellent experience in requirement analysis, impact analysis, design, coding, unit testing, integration and build/release of Software applications.
* Experience working in **PayPal**, **Verizon** and **Alcatel-Lucent** products.
* Possess strong commitment to customer satisfaction.

**Technical Skills**

**Languages** Python, Go, JavaScript, C++, C, Java, XML,

 SQL, Shell Scripts, HTML, Groovy

**Database** MySQL, Oracle

**Operating System** Linux, UNIX, Mac OS, Windows

**Tools**  ServiceNow, Jenkins, JIRA, GoLand,

 PyCharm, postman, Gerrit, ClearQuest,

 Visual Studio

 **Source Control Management** Git, GitHub, Perforce, ClearCase

 **Others** CI/CD, Jenkins, Docker, Kubernetes

 **Protocols** SS7, MTP, SCCP, TCAP, ISUP, IN, TCP/IP,

OAMP, LNP.

 **Products worked at** PayPal Major release products.VzHub and

 VZ Navigator for Verizon. Signaling Server

 Global, Infusion SCP, Infusion STPC and

 Infusion STPA for Alcatel-Lucent.

**Professional Experience**

**PayPal, San Jose, CA Oct’19—Till date**

Working for **PayPal, San Jose, CA** as a **DevOps Engineer** for multiple product teams. My responsibilities involve:

* Support on patching live production hosts to Ubuntu using configuration management tools like - Ansible and Puppet;
* Deploy applications at Production and debug live site issues;
* Development and scripting in shell, python and go;
* Administrating production Linux environment, VMs and BareMetal;
* Work on Docker, Cluster managers, Mesos/Kubernetes, GCP and AWS;
* Support on develop monitoring, alerting tools/automations;
* Build continuous integration services and create the build machine to perform the DevOps process;
* Identify various DevOps tools needed and work with the Architecture Review Board to have it validated and approved;
* Integrate SCM tools like Git into the DevOps setup;
* Setup end to end CI/CD pipeline using the tools like Jenkins;
* Develop scripts to perform workflow steps to enable the prerequisite setup;
* Setup notifications so that the team is notified in case of failures;
* Integrate Identity Provider to ensure role-based authority to have privileges for specific actions;
* Ensure enabling multiple executors of tasks so that multiple jobs may run in parallel;
* Identify DevOps metrices which can be tracked to measure improvement;
* Make sure to generate summary report and send it to the project administrators for audit;
* Monitor the Build machine and perform snapshot of the instance which is vital activity in case of disaster recovery;
* Work with different cross functional teams for new features implementations and bug fixes;
* Develop automation tests and deliver high quality code to production within a short development cycle in continuous integration and delivery environment;
* Plan infrastructure setup and configuration activities as per the business activities;
* Work on JavaScript, Json, Oracle, MySQL, Maven, Eclipse, Jira, ServiceNow, Java Restful services, Bluefin (Selenium, Jaws, TestNG and Maven), etc.
* Patching Live production hosts from RHEL to Ubuntu using Ansible
* Deploy applications at Production and debug live issues
* Support multiple Product Development teams in identifying and resolving issues to achieve project objectives and schedules
* Working on environment – CI/CD, Jenkins, Docker, Linux, ServiceNow, Jira, Git, Grafana, etc.
* Using Python and Go for scripting for infra activities

**Green Dot Corporation, Pasadena, CA Oct’18-Sep’19**

Currently working as a **Senior Release Engineer** for Green Dot Release team. My responsibilities involve:

* Support and lead Green Dot Major and Minor releases
* Enable continuous deployment cycles and on-demand deployment processes
* Troubleshoot both infrastructure and infrastructure automation issues
* Ensure highly scalable environment and monitor as well as troubleshoot pertinent issues
* Drive productivity through engineering fundamentals, building core frameworks and implement best practices
* Review **Jira** ticket, make sure the changes made by the developer under **Perforce** has **Fortify** scanned and QA approved
* Use **Teamcity** for build, pick the right package for deploy in different non-production environment like staging and QA
* Debug any issues relating to code conflicts, build and deploy
* Provide release solutions through automation using **Python**

**PayPal Inc., San Jose, CA Jul’13—Sep’18**

Worked as **Member of Technical Staff, Software Engineer** for PayPal Release Management Integration Team. My responsibilities involve:

* Study and understand the technical design of the new project/feature targeted for the new releases. Review Risk Assessment for the targeted release. Development environment is based on **Service Oriented Architecture** using **C++, XML, shell scripts** and Oracle **SQL** for mid-tier; HTML, CSS, JavaScript for front-tier and **Oracle** for back-end in Linux environment. Used JIRA and Rally for defect management.
* Provide solutions relating to PayPal Production **Github** Release.
* Debug live issues, resolve merge conflicts, fix Build and Deploy failures.
* Participate in the Release Build Acceptance Test issues, debug failures and execute steps to resolve them.
* Support multiple Project Development teams in identifying and resolving issues to achieve project objectives and schedule.
* Follow **Agile methodology** for all PayPal releases.
* Develop a platform for monitoring, logging, caching, data layer, and orchestration of **Docker** containers running on Kubernetes
* Responsible for development and implementation of platform components to support containers
* Work on various **automated** internal development tools for **Continuous Integration and Continuous Deployment** (CI/CD) using **Python, Jenkins, REST, JavaScript, AJAX, Jason, PyCharm and MySQL**

**Dew Software Inc., Fremont, CA Jun’10–Jun’13**

Worked for the client **PayPal, San Jose, CA** as a **Release Management Integration Engineer** for about 3 years and involved in different **PayPal** product **Releases**.

* Assess **Risk** for new **PayPal** projects and bug fixes targeted for new **PayPal** releases. Development is based on **Service Oriented Architecture** using **C++, Boost, XML, shell scripts** and **SQL** for mid-tier; html, CSS, JavaScript for front-tier and **Oracle** for back-end in Linux environment.
* Integrate code changes to the target release branch using **Git**.
* Debug live issues, resolve merge conflicts, fix build and deploy failures.
* For code review, used **Gerrit** and **Jira** for defect management.
* Use **Agile methodology** for the Application development.
* Develop different internal tools using **Python, Perl and Jason**.

**Techclique Inc., Warren, NJ Jul’09–May’10**

Worked for client **Tele Communications Systems, Aliso Viejo, CA** as a **Software Engineer** for their client products **VZ Navigator** and **AtlasBook** for Verizon. The products are navigational-based software developed in Qualcomm’s BREW platform for LG VX-11000 mobile phone.

* Study and review the UI flow for the mobile device.
* Design, coding on C/C++, unit and integration testing.
* Fix defect as per assignment and use ClearQuest tool for tracking.
* Use AgileMethodology for the Application development.

**Infinite Computer Solutions, Rockville, MD Jul’07–Jun’09**

As a **Software Engineer**, worked for client **Verizon, Irving, TX** for the product **VzHub**, which is a home VOIP phone that supports both wired and wireless services. It has a touch tone display unit which has different features like Calls, Contacts, Movies, Settings, Messages, Voicemails, Directories, Ringtones, Calendar, VCast, SMS/MMS, Traffic, etc.

* Design, coding on C++ and XML for UI on Visual Studio, unit and integration test.
* Use STL, multithreading, shell scripts on Linux for embedded ARM build.
* Use Agile Methodology for the Application development.
* Product Release Build and certify build release.
* Provide on-call production support and resolve customer issues.

**Ved Software Services Inc., Farmington Hills, MI Apr’07–Jun’07**

Worked as Programmer Analyst for the product EBiz (E Business kit) on the server side. The development was in C++ under Unix environment.

**Tech Mahindra (R&D Services) Ltd, Chennai, India Mar’00–Mar’07**

Worked for the client **Alcatel-Lucent, Plano, TX** for various projects on **Signaling Server Global product**. Carried out requirement analysis, requirements writing (SLD), design (SSLD), coding, unit testing (based on UTSaR) and building for most of the projects. All the projects were developed using C/C++, UNIX, shell scripts, Posix threads, SQL, Oracle, Clearcase, Solaris 10 and GNU debugger.

As a **Design Lead** at Tech Mahindra, I worked for different projects like –

* **LNP provisioning via common management information service element** and **Installer and Resizer utility for Flexible Routing Databases.**
* Enhancement of the **System Manager Security application** to enable the GUI users to view the selected file from the user’s account.
* **System Status Report – Traffic Metering Measurements** application for the enhancement on the System Manager that collects traffic data from Admin and TMM processors.
* For the product **Alcatel-Lucent 8790 Service Control Point** that provides a platform for the execution of services developed on the Service Creation Environment, services were deployed with no changes required on the SCP platform for the new service introduction.
* **Unix porting of Audit Man Machine Interfaces** for the National Signaling Transfer Point and have them packaged with the Initialization Recovery Synchronization utilities for the product Infusion STP.
* For **National STP-A SS7 Over IP** to route SS7 traffic over IP network.
* Both for **National Signaling Transfer Point A Native mode Common Channel Manager** and **Common Channel Distributor** onto LYNX based processor to provide the increase in message handling performance necessary to meet the full potential of the processor.
* **Enhanced Gateway Screening** feature for the International STP that provides the Infusion STPC capabilities to screen the incoming MTP and SCCP messages received.

**Icon Information Systems Pvt. Ltd, New Delhi, India Oct’97–Feb’00**

As a Software **Programmer**, worked for client **Defense Research Development Organization** (DRDO), Delhi, India for the project which is a war gaming model based on existing tactical concepts and doctrines. Modelling included desert and plains terrain, ridden with obstacles.

* Analyze the system after extensive user interaction and study.
* Designing of GUIs using X-Motif
* Develop in C/UNIX in Motif to perform complex validation and operations.
* Design and execute SQL queries to interact with the Oracle server

**Oil India Limited, India Apr’97–Sep’97**

As a **Software Programmer**, worked for Oil India Limited for a project to establish a Client/Server environment between PC (DOS-dBASE) and CYBER-930 Mainframe (NOS/VE-cBASE) using asynchronous communication (RS-232-C). The development was done in **C/UNIX** on the client side and **FORTRAN** on the server side.

**Education**

* **Bachelor’s in Computer Science** & **Engineering** from **Jorhat Engineering College (Dibrugarh University)**, Jorhat, Assam, India.
* Certified with **Executing Complex Programs, Leadership for Strategic Execution** and **Converting Strategy into Action** from **Stanford University**.
* Pursuing **Certified Kubernetes Administrator** course through **Linux Academy**.

**References**

* Available on request.