Rahul Paul

25 years, Coding, Architecture, Communication, People

Berlin
(+49) 157 5110 0596
paul.rahul@gmail.com
https://g.dev/rahulpaul

EXPERIENCE

Software Development Manager, AWS Glue

JAN 2023 - JAN 2024   **Amazon DC GmbH, Berlin**

- Evaluating key initiatives to scale AWS Glue's core backend orchestration layer
- Led the successful deprecation of DSL
- Led the initial designs for Job Scheduling initiative

Director of Engineering

NOV 2020 - DEC 2022   **Nutanix GmbH, Berlin**

- Performed as IC since mid-2021, working on 2 projects - 1) A Kubernetes extension for Nutanix, 2) Refactoring of Nutanix Control Plane-to-Host code layering
- Led Nutanix Cloud (Xi) Infrastructure projects; 5-7 reports (90% Berlin, 10% US); Projects - **Config service**, IP Management service, **Mini-DC**, **DC Bringup Automation**
- Contributed to Berlin site growth - hiring, culture, enablement

Senior Engineering Manager

AUG 2019 - OCT 2020   **Nutanix GmbH, Berlin**

- Started a dev. team spread across Berlin and USA for Nutanix's Xi data centers (nutanix.com/products/xi-cloud-services)
- Involved in planning, resource management, design and code reviews, coding (Python, Golang)

JUN 2017 - JUL 2019   **Nutanix India, Bangalore**

- Started managing the "Acropolis" (VM Control Plane) team and **helped grow it to 22 members (from 10)**
- **Increased charter** of the team - started owning major features in AHV Hypervisor, Acropolis, OpenStack and "Uhura" (**Hypervisor-agnostic VM Management service**)
- Released key features like **Unified Publisher** (tech debt fix of legacy publisher design), Auditing, UEFI support
- One of the "healthiest" teams in the org in terms of Culture Amp

SKILLS SUMMARY

Distributed Systems	Good
Coding	Proficient
DS & Algorithms	Great
Team Building	Proficient
Product Strategy	Good

PROGRAMMING LANGUAGES

Primary: Python, Golang, C++ (proficient)

Secondary: Java, Javascript, C

FRAMEWORKS

Server: NodeJS, Servlets (basics)

Client/Web: VueJS, JSP (basics), Flask, Jinja & EJS templates (intermediate), CSS, Chrome APIs (intermediate)

Data: PostgreSQL, Redis (basics), DynamoDB (basics), ElasticSearch (basics), Protocol Buffer (proficient), gRPC

INFRA

Cloud: AWS (intermediate), Heroku (good), Google Cloud (intermediate)

CI/CD: GitHub

Virtualisation: AHV (proficient), ESXi

Containers: Docker (basics), Kubernetes (good)

- scores
- Nutanix India site contributions - hiring, college engagements, **Engineers' Catchup sessions** (concept founder), Nutanix India soccer team and club (founder)

Staff Engineer

AUG 2016 - JUL 2017   **Nutanix India, Bangalore**

- Continued tech leading "Uhura" team - more platforms, new features (Python, multi-threading)
- Helped grow the charter and size of the team to 10 members
- Helped Uhura pioneer various quality initiatives - early adopter of DevOps engineering model and Nutest framework (Nutanix's in-house automation framework)

Senior MTS

OCT 2013 - JUL 2017   **Nutanix India, Bangalore**

- **Started** the Hypervisor Agnostic VM Management service ("Uhura") - TL and only developer for ~6 months (Python, multi-threading)
- TL and major developer for the first release of Uhura - support for both AHV and ESXi VM ops using common interfaces (Python)
- **Founding member** of the new **in-house database team** ("IDF") - implemented various initial features and interfaces (C++, multi-threading, partitioning, event loops, sharding)
- Tech lead **Watches (Notifications) feature** of IDF (C++, queues, query language processing)
- Tech led and released feature to **auto-generate Powershell Cmdlets** from Nutanix APIs (Python, Powershell, Swagger)

Software Engineer

AUG 2010 - MAR 2013   **Google India, Hyderabad**

- Developer for Google Apps for Business (then GSuite, now Google Workspace https://workspace.google.com/)
- Developed the **Google Admin Audit logs feature** (https://cloud.google.com/logging/docs/audit/gsuite-audit-logging) (C++, Protocol Buffers, GMock, BigTable, MapReduce, RPC)
- Nominated **in-house trainer** for key Google technologies (BigTable, MapReduce, Protocol Buffers)
- Participated in various in-house Hackathons developing apps in Android, Google Apps Script, JQuery, HTML5

Oracle India Pvt. Ltd, Hyderabad

CONCEPTS (strengths)

Multi-threading, Design Patterns, Partitioning, Async communication (event-driven, RPCs), REST APIs

PATENTS

Entity database framework (US10223150B2)

System and method for preserving entity identifiers (US10606630B2)

EDUCATION

BITS Pilani - *M.S. in Software Systems* (May 2009, via correspondence & weekend classes)

IIIT Calcutta - *B.E. in I.T. / Computer Science* (Jul 2000-04, CGPA 8.61)

Bharatiya Vidya Bhavan, Kolkata - *CBSE* (intermediate; 90% aggr.)

LANGUAGES

English	Proficient
German	Beginner (A2 level)
Hindi, Bengali	Proficient

MAY 2010 - AUG 2010	Project Leader
JAN 2008 - MAY 2010	Senior Applications Engineer
JUL 2006 - DEC 2012	Applications Engineer

- Part of Supplier Portal application (Oracle Fusion) development team (Java, Oracle ADF, OAF, JDeveloper 11g, Oracle 11g, Oracle 10g)
- Designed and developed the User and Roles provisioning system for the suppliers
- Developed the Supplier Site module which was the key entity for all supplier transactions

Infosys Technologies. Ltd, Chennai

JUL 2004 - JUL 2006	Software Engineer

- Developed the Asset Management system of a US based railway company (Java, JSP, Servlets, Websphere, IBM DB2)

PERSONAL & HACKATHON PROJECTS

Serendipity — www.serendi.pt (2021)
- Portal to search strangers' photos where you appear accidentally
- Full stack development
    - Backend - Golang, Regex parser
    - Frontend - VueJS
    - DB - PostgreSQL
    - Infra - Google Cloud, Heroku, AWS (S3 and CloudFront), Netlify, 24x7.com monitoring
- <insert link to medium.com article>

Flash Code Browser — *Nutanix Hackathon participant (2016)*
- A contextual code browser built on ctags, cscope, pycscope and Elasticsearch; team of 4 members
- Contribution - Elasticsearch modules (Java)

Nugle — *Nutanix Hackathon winner (2014)*
- One-stop employee portal: Directory, Documents, Developer Stats, Oncall Pager setup, Badges; team of 4 members
- Contribution - Idea conception, backend development (Java, Google APIs, Bash scripts)

Brownie Points — *Yahoo Hackathon participant (2012)*
- Quiz based Restaurant recommendation and vouchers

- Contribution - Backend service and APIs (Java)

Miscellaneous — *https://github.com/paulrahul/projects*

- Username recommendation service, Chrome usage analysis extension, Stats service, Word game, Playlists consolidator