

# Rahul Paul

25 years, Coding, Architecture, Communication, People

Berlin

(+49) 157 5110 0596

[paul.rahul@gmail.com](mailto: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 AWS Data Pipeline (DPL)
- Led the initial designs for Job Run Queueing (more efficient Job Run scheduling)

### 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](https://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

## 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)

- One of the "healthiest" teams in the org in terms of Culture Amp 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

## 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

## Oracle India Pvt. Ltd, Hyderabad

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](http://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