

Robert Putt

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Software architect and technical leader with a track record of turning complex, legacy heavy enterprise environments into scalable cloud native platforms. Operates confidently at C-level, translating engineering complexity into business outcomes with deep expertise in data and event driven architectures that power modern data intensive businesses.

Experience

Lead Software Architect, Rackspace

July 2021 - Present

Delivering AI, Cloud Native Development and Platform Consultancy across the hyperscalers spanning finance, retail, manufacturing, healthcare, travel & logistics with regular C-Level engagement.

Performed cloud modernisation assessment & won subsequent RFP (~\$3m) to deliver datacentre exit of ~20 applications for a top 3 global educational publisher. Scope included Java runtime upgrades, Oracle to Postgres conversion, refactoring of legacy ETL systems from Perl to Python & Airflow, containerisation to AWS EKS, security posture improvements and tech debt reduction. Provided technical leadership to a team of ~30 engineers and architects during delivery including the hiring of subcontractors to fill specific needs and management of customer stakeholders as part of the delivery team. Delivering positive TCO within 5 years and allowing acceleration of new feature delivery.

Broke stalemate at a big three financial consulting firm through a cloud adoption & readiness assessment and formation of a Cloud Centre of Excellence with clear mandate and direction for future cloud adoption including standard operating procedures, useful accelerators for deployment to AWS EKS and recommendations for restructuring the organisation to encourage self-service by application teams and a stronger GitOps style of working.

Led modernisation and containerisation effort for ~40 applications for a large multinational digital print company with a highly seasonal usage pattern enabling cost optimisation of the platform via cloud autoscaling capabilities.

Completed cloud modernisation advisory project for top 5 cargo airline and subsequent cloud migration effort from colocated VMWare environment to AWS including strategic application modernisation (replatform / refactor), tech debt reduction where possible and security remediation, all workloads highly critical to the airline's operation with large financial implications for the business relating to any downtime.

Internet of Things PoC creation for APAC based automated Food & Beverage startup, achieving cloud integration of their edge device within 3 months including telemetry, customer ordering and diagnostics via MQTT, AWS IoT Core, Timestream and serverless API hosted on Lambda & API Gateway opening the door to further series of investment.

Collaborated with pre-sales on a number of opportunities, and converted several re-host propositions into broader conversations about cloud native adoption and refactor. Successfully converted a number of sales to a

Core Skills

Cloud

Amazon Web Services, Azure, OpenStack

AI

AWS Bedrock, Azure OpenAI, RAG, MCP, LangChain & LangGraph, N8N, Locally Hosted Models

Architecture

Event Driven, Microservices, Serverless & Cloud Native, Zero-Trust, AWS Well-Architected Framework

Platform & Infrastructure

Kubernetes, Terraform, CI/CD & GitOps (Github Actions, Jenkins, AWS CodeBuild), Docker, Ansible, Cloudformation

Software Development

Languages - Python, TypeScript / JavaScript, SQL, Java

Frameworks & Libraries - Flask, FastAPI, SQLAlchemy, Alembic, ExpressJS, React, React Native, Springboot, Celery

Datastores & Data Processing

Postgres, MySQL, OpenSearch, Apache Airflow, Pinecone, Chroma, SQLite, AWS Glue & Kinesis, Apache Spark, AWS Timestream, InfluxDB

Messaging

AMQP, MQTT, Kafka, SQS, Valkey Pub/Sub

Internet of Things

AWS IoT Core, Azure IoT Hub, ChirpStack LoRaWAN LNS, Development for ESP8266, ESP32 and STM32 & similar ARM Cortex, ATMega328 MCUs

Practices

AGILE, FinOps Framework, Security & Compliance, Technical & Advisory Leadership

Education

BSc (Hons) Computer Science, 2:1
University of Plymouth, 2009 - 2013

Certifications

2026 - Palantir Foundry Foundations
2021 - AWS Certified Solutions Architect Associate (expired)
2021 - The Things Certified: Fundamentals
2021 - The Things Certified: The Things Stack

wider refactor or replatform scope achieving on average 14x revenue increase on these deals and delivering more value to the customer.

Creation of internal AI powered Software Development Lifecycle tool to accelerate customer facing projects including AI assisted discovery, assessment and rationalisation of customer application portfolios resulting in more consistent delivery and improved customer recommendations.

Provided line management for 8 positions including performance management, professional development, hiring and HR functions.

Site Reliability Engineer, Rackspace June 2017 - July 2021

Solutions & Services Platform Engineering (September 2020 - July 2021)

Focussed on developing a common framework for the development of future Rackspace services enabling product teams to iterate faster with cohesion to the company standards.

Improved customer portals by implementing i18n support allowing easy translation for the Japanese market segment, a strong growth area for Rackspace following strategic partnership with NTT.

Lowered barrier to entry of using in-house Micro UI framework by creating templates allowing one command instantiation of new projects rather than a lengthy onboarding process.

Performed various quality of life improvements including expanding Terraform deployment to legacy Rackspace solutions and improvement of CI/CD pipelines to identify technical debt, code quality issues and security concerns at build time.

OpenStack Public Cloud (June 2017 - September 2020)

Designed and developed Function as a Service offering sandboxing function executions within containers. Written in Python utilising Flask, Celery, RabbitMQ, Swift (OpenStack Object Store), Keystone (OpenStack Identity), Elasticsearch and Docker Engine. Deployed across 6 regions and scaling upon Rackspace's internal cloud. Currently completes in the region of 250,000 function executions, equating to 4,500 hours per week.

Assisted in the creation of a workflow service which allowed creating flows involving FaaS functions and integrations with other services to build automated business processes such as re-imaging & patching hosts, migration customer virtual machines, and auto remediating monitoring alerts, reducing workload for the operations team and enabling their time to be spent on platform improvement.

Deployed new internal OpenStack cloud enabling the use of Magnum for Kubernetes Cluster Orchestration and other Platform as a Service features missing in Rackspace's aging internal cloud. Enabling simplified app deployment, reducing operational overheads and enabling quicker iteration of tool features.

SpinUp Cloud LLC (June 2019 - May 2020)

Technical lead and architect in delivery of an AWS Lightsail / Digital Ocean / Linode style platform within aggressive timelines to disrupt the "light cloud" market. Shipped Cloud Instances (Virtual machines), Images & VM Backups delivered within initial 6 months. Database as a Service, Load

2016 - Certified OpenStack Administrator (expired)

2014 - ITIL v3 Foundation

Personal Projects & Volunteering

Mentor & Advisor - Trackpac

March 2022 - November 2025

Equity holder in Internet of Things startup providing technical and business guidance to the company leadership, successfully exited through private sale in November 2025 with CEO acqui-hired into new organisation. - trackpac.io

AI Planning Analysis

May 2026 - Present

Supporting local residents group to challenge a series of planning applications in relation to a new housing development encroaching upon the green belt. Accessibility to planning applications is poor due to lack of knowledge regarding valid objectionable reasons, planning policy and complexity of application documentation. Built an AI analysis tool which reviews planning documents and determines valid objections with policy references for simplifying road to objection. Example - smartplymouth.org/planning/26%2F00381%2FREM

Heritage Records Volunteering

January 2026 - Present

Volunteer in local heritage archiving effort to catalogue and digitise over 80,000 images donated from local newspaper during closure of one of their offices. Contribution includes development of distributed AI analysis software to perform vision encoding, image likeness search and RAG of existing collection metadata to auto generate descriptions and metadata for images where possible reducing volunteer workload to categorise and describe images. - peoplesarchiveplymouth.org

IoT Deployment Volunteer

2019 - 2021

Citizen science initiative led by Plymouth City Council, University of Plymouth, National Trust and Devon Wildlife Trust. Designed and deployed city wide LoRaWAN sensor network with timeseries storage and dashboarding to monitor Plymouth's natural spaces. - greenmindsplymouth.com

Balancer as a Service and One Click Deployable Apps in the following 6 months.

Owned solution lifecycle including analysis of requirements, architectural design, story decomposition and backlog prioritisation, translating product owner requirements into a structured and deliverable backlog. Provided technical leadership to ~20 engineers during the delivery phase.

Linux Systems Engineer II, Rackspace Jan 2015 - June 2017

Handled escalations from operations for ~40,000 Citrix XenServer hosts running over 500,000 customer virtual machines.

Participated in large scale projects including migration of customer virtual machines from Rackspace's legacy cloud (Slicehost) to the next generation OpenStack powered cloud, datacentre migrations and time critical security vulnerability mitigations.

Ongoing development of internal tooling including in-house alerting system and inventory cache written in Python with Flask framework, Celery, MySQL, MongoDB and other open source components.

Provided mentoring to the operations team to encourage engineering-based solutions to operational problems and embracing a dev-ops inspired culture.

Previous History, Various June 2011 - Jan 2015

Previously held roles at Intel as a UNIX Systems Administrator (Internship) 2011-2012, Tier 1 Support Engineer and Automation Engineer at Symantec 2013 - 2015.