Sarath D

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LINKS

Github: **sarathdr**
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Website: **tech.sarathdr.com**

PROFILE

Senior Full Stack Engineer with **20 years** of experience building web, mobile and back-end platforms across government, banking, telecoms and fintech. Strong in **Java** (Spring Boot, Vert.x), **Angular** and **React**, cloud-native delivery on **AWS** and **Azure**, and identity and access management. Uses **AI-assisted development** (GitHub Copilot, Claude Code) day to day, and builds LLM-powered tooling with the **Claude API**. Focused on delivering high-quality solutions and continuously adopting new technologies to drive innovation and performance.

EDUCATION

UNIVERSITY OF EAST LONDON
MSc in Business Information Systems (Merit)

COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY
Bachelor of Technology in Computer Science and Engineering (Distinction)

HIGHLIGHTS

• **Co-founder** of **MobMe Wireless**, named by The Wall Street Journal as one of the "10 Startups to Watch" in 2008, and listed by **NASSCOM** among the 100 most innovative companies in India.

• Led Real Networks' storefront team for the EMEA region from London, managing multiple offshore teams in India.

EXPERIENCE

MINISTRY OF JUSTICE | Senior Full Stack Developer (Contractor)
June 2020 – Present | London, UK

- Senior Full Stack Developer on the **Common Platform Programme (CPP)**, the digital case management platform for the criminal courts.
- Built front-end features in **Angular** (versions 5–19) on top of **Java** microservices, each aligned to a business domain, with **SOAP** and **REST/JSON** integrations to third-party systems.
- Currently on **Angular 19**; managing application state with **NgRx**.
- Applied **CQRS (Command Query Responsibility Segregation)**, separating the responsibilities for reading and modifying data to simplify the design of complex systems.
- Unit tests in **Jest** and **Jasmine**; end-to-end tests in **Protractor**.
- Deployed to **Azure** using **API Management** and PaaS services.
- Worked in an **Agile** team with business product owners, backend developers and UX designers to design APIs and implement design specifications.
- Core technologies: **Java, Angular 19, PostgreSQL, Jenkins, SonarQube, Azure**.

QWIL MESSENGER | Senior Front-end Developer (Contractor)
May 2019 – May 2020 | London, UK

- Senior Front-end Developer at **Qwil Messenger** (Network Platform Technologies Ltd), a secure, compliance-focused B2B chat application.
- Built the desktop, mobile and web clients with **React 16+**, **Electron** and **React Native**.
- Contributed to the **Python/Flask** microservice backend, using Flask's lightweight, modular architecture.
- Built **RESTful APIs** in Flask, handling HTTP requests, routing and CRUD operations.
- Built a scalable, reusable component library using **Atomic Design**.
- Implemented real-time message sync using **Server-Sent Events (SSE)** over **HTTP/2**.
- Unit and end-to-end tests with **Pytest**, **Jest**, **React Testing Library** and **Cypress**.
- Deployed and scaled services on **AWS** with **Docker** and **Kubernetes**.
- Core technologies: **React, RxJS, Redux, Python, SSE, Jenkins, GitLab** • qwil.io

MINISTRY OF JUSTICE | Senior Full Stack Developer (Contractor)
April 2018 – May 2019 | London, UK

- First engagement on the **Common Platform Programme (CPP)**, building **Angular 5–7** features on **Java 8** microservices with **NgRx** and **CQRS**.

SKILLS

LANGUAGES
Java (8–25) • TypeScript • JavaScript • Python • Kotlin DSL • SQL • PHP

BACKEND
Spring Boot • Vert.x • Java EE • Akka • Node.js • Flask • Django • gRPC • REST • SOAP • CQRS • Microservices • Hexagonal Architecture • Web3 / Blockchain

FRONTEND & MOBILE
Angular (2–19) • Signals & Standalone Components • NgRx / SignalStore • React • Redux • Backbone.js • RxJS • Next.js • Nx • React Native • Electron • Android (Java, Jetpack)

CLOUD & DEVOPS
AWS (ECS, S3, IAM, DynamoDB, KMS, Parameter Store, Transcribe) • Azure • Heroku • Docker • Kubernetes • Helm • Argo CD • Terraform • Jib • Jenkins • GitLab CI • Gradle • Maven

IDENTITY & SECURITY
Keycloak • OAuth 2.0 / OIDC • JWT • SSO • Microsoft Entra ID • Okta

DATA
PostgreSQL • pgvector • Redis • Oracle • Sybase • Flyway • Firebase • Snowflake • RabbitMQ

TOOLS
Git • Gerrit • GitLab • JIRA • JetBrains Suite • Android Studio • Webpack • Gulp • Stripe

AI & LLM
GitHub Copilot • Claude Code • Claude API • RAG • Embeddings (Voyage AI) • Hybrid search (vector + BM25) • Prompt engineering • BMad Method

TESTING & OBSERVABILITY
Jest • Jasmine • Cypress • React Testing Library • Protractor • Pytest • Prometheus • Micrometer • Splunk • SonarQube

J.P. MORGAN CHASE | Senior Associate
September 2017 – April 2018 | Glasgow, UK

- Built **Java EE** platforms supporting internal discretionary trading.
- Designed a low-latency data aggregation platform with the **Akka** toolkit that connects to multiple data sources at once and transforms the data into any required format.
- Built microservices with **Spring Boot** on cloud infrastructure.
- Added performance monitoring and user insights with **Splunk**.
- Built front-end clients in **React**, on **Sybase** and **Oracle** databases.
- Worked in an **Agile** team with UI/UX designers, engineering teams and business product owners.

REAL NETWORKS | Senior Full Stack Engineer
July 2013 – August 2017 | London, UK

- Led the EMEA storefront team, building customer-facing applications for mobile operators (Vodafone, T-Mobile) with **Angular 2+**, **React** and **Java EE/Spring**.
- Built native and hybrid **Android** apps that let users manage their ringback tones and music.
- Integrated mobile Value-Added Services (VAS) provisioning and billing with operators using **Spring Quartz**.
- Built web storefronts for campaign management and affiliate tracking.
- Worked in an **Agile** team, collaborating closely with business owners.
- Core technologies: **Spring MVC, Java Stripes, Android, PhoneGap, Google Protocol Buffers**.
- Live work: Vodafone Web Storefront • Vodafone Android App • T-Mobile Android App

MUZICALL LIMITED | Software Engineer Team Lead (Contractor)
December 2010 – July 2013 | London, UK

- Led a team of four front-end developers: planned the workload, set best practices, reviewed code and kept delivery on schedule.
- Worked with product teams, business stakeholders and solution architects to deliver against defined specifications.
- Wrote **SRS documents** and software architecture designs, and produced cost and time estimates.
- Delivered platform integrations with mobile operators including **EE, Virgin Media, NOS Optimus** and **Orange Switzerland**.
- Led an internal affiliate-conversion tracking solution and integrated **HasOffers** for **A/B testing**.
- Actively involved in mobile marketing, advertising and improving the mobile user experience.
- Core technologies: **Java, JavaScript (Backbone.js, Grunt.js), Android, PhoneGap, PHP Symfony 1.4/2**.

CYBER-DUCK | Senior Web Developer
March 2009 – November 2010 | London, UK

- Built electronic filing to **Companies House** for Wisteria Formations.
- Integrated payment gateways and managed content management systems.
- Worked in a large **Agile** team to deliver projects efficiently.
- Core technologies: **Java, JavaScript, PHP Symfony 1.4/2, CodeIgniter**.

MOBME WIRELESS SOLUTIONS | Technology Lead (Co-founder)
October 2006 – February 2009 | India

- Built the company's core product, an **MMS** (Multimedia Messaging Service) engine parser.
- Built an **IVR** CRM platform for **Airtel** on **Asterisk**, and a **bulk SMS** sending CRM tool.
- Core technologies: **Java, JavaScript, PHP Symfony 1.4/2, CodeIgniter, Asterisk**.

INTERESTS

AI agents & LLM tooling • Machine Learning & AI • Multi-threaded applications • Algorithms • Fintech • Identity & security • Mobile application development • Digital media marketing • Blockchain • NFT • Metaverse

PERSONAL PROJECTS

SNOWFLAKE & AWS DATA PIPELINE | Data Engineering

2026

- Built an event-driven data pipeline that moves messages from **RabbitMQ** into **Snowflake** via **Amazon S3**.
- Developed a consumer microservice that reads messages from RabbitMQ, transforms them into structured **JSON** payloads and writes them to an S3 bucket.
- Integrated Snowflake with AWS using a **storage integration** and **IAM** role trust, so Snowflake reads the JSON payloads from S3 and updates the target tables.
- Provisioned the Snowflake integration and the AWS resources it needs as code with **Terraform**, so it is repeatable across environments.
- Core technologies: **Snowflake, AWS S3, IAM, RabbitMQ, Terraform, JSON**.

MULTI-IDP DIRECTORY SERVICE | Identity

2026

- Built a microservice that connects to multiple identity providers, **Microsoft Entra ID** (Graph API), **Okta** and **Keycloak**, to read users and groups through one unified API.
- Supports group-member search, global user search by name, email prefix or email domain, and paginated results with total counts. Each user is returned with their group memberships.
- Used **Redis** to cache directory lookups, cutting calls to the providers, and to store each provider's connection credentials.
- Core technologies: **Java, Vert.x, Redis, Microsoft Graph API, Okta API, Keycloak Admin API, OAuth 2.0**.

CLOUD-AGNOSTIC KUBERNETES DEPLOYMENT | DevOps

2026

- Built a reference project showing how to deploy an application with no dependency on a specific cloud provider, so the same setup runs locally or on any managed Kubernetes service (EKS, AKS, GKE).
- Packaged the services as **Helm** charts, with separate values files for each environment.
- Set up **GitOps** delivery with **Argo CD**: Git is the single source of truth, with automated sync, self-healing and easy rollback.
- Core technologies: **Kubernetes, Helm, Argo CD, Docker, Minikube**.

FREELANCE CONTRACTS

REAL NETWORKS

October 2022 – 2024

- Built a service that classifies incoming phone calls as spam or genuine by analysing the live audio stream. It processes, converts and buffers the audio, then sends snippets asynchronously to externally hosted **ML models**.
- Each stream runs on its own worker thread, so processing never blocks and data is consumed at network speed.
- Supported the existing ringback-tone **Android** and **Angular** applications.
- Core technologies: **Java Spring Boot, Amazon Transcribe, gRPC, Android, Google Protocol Buffers, ML**.

EXCHANGE ART

December 2021 – June 2022

- Built a **Solana** NFT marketplace for artists.
- Core technologies: **Angular 13+, React Web3.js modules, Firebase, Blockchain** • exchange.art

DIGITALEYES

August 2021 – October 2021

- Worked on Solana's first open NFT marketplace.
- Core technologies: **React, Web3.js modules, Firebase, Blockchain** • digitaleyes.market

POLE STAR GLOBAL

July 2020 – April 2021

- Built an Android app for ship and fleet tracking.
- Integrated the **Google Maps API** for Android and **Mapbox** to show ship trails, weather and wind direction.
- Core technologies: **Java, Android Jetpack (Data Binding, Lifecycle, LiveData, Room), RxJava, RxAndroid, Retrofit, OkHttp** • Google Play

WWW.SKILLEDCONNECTION.COM

July 2016 – August 2017

- Built a platform for technology companies to recruit skilled contractors.
- Implemented authentication and authorisation with **Django** and **Django REST Framework**.
- Built dynamic, responsive user interfaces with Django's template language.
- Optimised database queries, indexing and caching to improve performance.
- Deployed to **AWS** and **Heroku** and configured **Apache** and **Nginx** web servers.
- Core technologies: **Python, Django, Ionic, AngularJS**.

PROPELLER GROUP PR | INTERNET | MOBILE | Digital Marketing Consultant (Contractor)

February 2009 – September 2012

- Planned and ran digital marketing strategies for clients.
- Tracked and monitored advertising campaigns and social media activity.
- Conducted social media research and analysis using advanced analytics tools.

WWW.MONEYMAGPIE.COM | IT Consultant (Contractor)

August 2010 – December 2010

- Managed cloud hosting.
- Created tools and plugins for affiliate integration and conversion tracking.
- Core technologies: **PHP, jQuery, WordPress, bbPress, SOAP, HTML5**.