

# Sachin Chandy

Software Engineer

London, United Kingdom  
<https://sachinmc.github.io>  
+44 (0) 7928333062

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## EXPERIENCE

**Software Engineer** — *SuperAwesome, London, UK* MARCH 2020 - Current

- Develop and Maintain high quality Kid-Safe Ad Server technology in accordance with COPPA (Children's Online Privacy Protection Act) and GDPR-K.

**Backend Engineer** — *Beamery, London, UK* JUNE 2019 - DEC 2019

- Built out data pipelines and API clients in Node.js (and Go) on Google Cloud Platform to ingest, filter, transform and store data, factoring in memory optimizations with streams, and keeping API calls efficient with async calls, compression and pagination.
- Rewrote admin backend in HAPI and Node.js using third party middleware acting as a proxy for CRUD messages to MongoDB. Tasks included implementing new models to work with custom ORM and writing a new solution to maintain server sessions from a cookie drop.

**Software Engineer** — *Nami (Open Source Project), London, UK* - <https://nami-serverless.github.io> AUG 2017 - MAY 2019

- Designed and implemented a Serverless framework from scratch using Node.js and AWS SDK.
- Designed the CLI to be user-friendly, bundled functionality so that standing up the system can be accomplished using a single command, instead of 50+ API calls.
- Designed the solution leveraging scalability, fault tolerance and separation of concerns.
- Factored in cost versus performance trade offs while implementing the solution.
- Crafted solutions to get around Amazon's rate limits and optimistic returns.

Additionally, built an extensive number of full-stack web applications, some of which include, a React web application listing available routes for airlines allowing filtering based on source or destination and a social news and discussion application like Reddit, built with Rails, PostgreSQL, and JavaScript.

**Low Latency Network Engineer** — *Morgan Stanley, London UK* APRIL 2016 - JULY 2017

- Delivered several projects in network design and deployment, liaising with project managers, customers and internal business units, while also providing L3 operational support for low latency/high frequency resilient trading networks which includes Market Data infrastructure, Exchange, and Client connections.

## SKILLS

**Core skills** — Node.js, Typescript, SQL, Data Structures, Algorithms, Serverless.

**Additional skills** — Distributed Systems, Message Queues, Caching, Databases, PostgreSQL, MongoDB, System Design, Redis, Docker, REST API, Amazon SQS, Rabbit MQ, Kafka, AWS, Git/GitHub, Microservices, Event-driven systems, Agile Development, Scrum, CI/CD, GCP, Jest, Mocha, Chai, Unit and Integration Testing.

## PROJECTS

**Nami** — <https://nami-serverless.github.io>

Nami is an open-source Serverless framework that helps deploy an event driven system to handle bursty webhook traffic by setting up an API gateway with AWS Lambda and Amazon SQS queue, with eventual storage of event data in a docker containerised MongoDB instance on EC2. It simplifies the deployment of such a system with a single command which would otherwise take 50+ API calls. The system that Nami deploys is designed using principles of decoupling and separation of concerns which allows for high levels of scalability and fault tolerance.

## EDUCATION

**BSc in Computer Science** — *Oklahoma State University, United States*