
Work Experience

Apr 2022 - Now **Senior Software Engineer**, *Twitter*, London, UK.

Worked on Tweet Search, focusing on candidate retrieval and ranking.

Productionised ML models in Tweet Recommendations and improved experiment iteration velocity.

Built [Approximate Nearest Neighbour Search](#) of dense vectors as a platform for other internal teams, which was used for efficient similarity search of tweets, users etc. This helped reduce onboarding time of internal customers from months to weeks.

Aug '20 - Mar '22 **Senior Site Reliability Engineer**, *Apple*, London, UK.

Experienced Incident Manager and Traffic SRE responsible for L4/7 load balancing and transparent e2e encryption at massive scale.

Maintained a [DPDK](#) based kernel bypass load balancer for low latency & fault tolerant packet level load balancing for over 400,000 physical servers. A Rust service managed security keys and provided IPsec encryption to all application traffic without any user configuration.

Built tools to improve deployment velocity, config management, observability & monitoring.

Oct '18 - Aug '20 **SRE/Platform Engineer**, *Monzo*, London, UK.

Worked with a small team responsible for Site Reliability and Infrastructure for a major UK bank with over 4M current accounts.

Maintained a modern infrastructure platform that ran over 1600 microservices on Kubernetes & AWS along with etcd, Prometheus, Cassandra etc. Maintained several shared libraries, was primary on call and helped other engineers make the best out of the platform.

Proficient in complex distributed systems, decentralized databases, consensus protocols and AWS.

July '13 - Sep '16 **Freelance Developer, Software Engineer at Fybr & Ideadevice**, Bangalore, IN.

Built distributed stream processing in Erlang for an IoT startup and helped built process automation for one of India's Stock Exchanges.

Education

May '17 - Aug '17 **Recurse Center**, recurse.com, NYC.

Attended a 3 month self directed, community driven educational residential retreat for programmers. Worked on several projects including a compiler for a small programming language targeting LLVM and micro benchmarking machine code. Learned x86 assembly, Rust and internals of linkers and operating systems. [More info](#)

Apr '09 - Jun '13 **Bachelor of Technology in CSE**, *National Institute of Technology, Calicut*.

Relevant Projects

Incremental A tiny scheme compiler built with strong focus on learning, testing and experimentation. The single pass compiler written in Rust can compile a small subset of Scheme into x86 assembly. Presented a [talk about this project](#) at [Papers We Love, London](#). [Source Code on Github](#)

Skills

Proficient in Python & Rust. Comfortable in C, Go, Haskell, Erlang, Scala & x86 Assembly.

I have a keen interest in functional programming, type systems and compiler internals.