Jebin Philipose

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Chennai, India

Senior Backend Engineer with 4+ years of experience building scalable B2B SaaS platforms

EXPERIENCE

Senior Backend Engineer (SE-3) — Chennai, India
Detect Technologies — 09/2024 - Present

- **T-Pulse v23 Release Lead:** Led a cross-functional 4-engineer team to deliver the **T-Pulse v23 release**, resolving **200+ functional, security (VAPT), and performance issues.** Achieved **100% green VAPT audit status**, unblocking pending invoices for high-value clients including **BPCL**, directly accelerating company revenue.
- **NRL Scope Management Lead:** Architected a **cloud-agnostic system** and its **PostgreSQL schema** while leading a cross-functional 5-engineer team through **Agile sprints and code reviews**, increasing **delivery velocity by 35%.** Engineered an asynchronous data pipeline using **Python/Django, Redis, and Dramatiq** to process large CSV files, **reducing memory usage by 70%, eliminating 504 timeouts, and accelerating user time-to-insight by 10x.**
- **Performance Optimization (MRPL):** Improved response times by **99%** and reduced SQL queries from **4,081 to 9** after diagnosing bottlenecks using **CloudWatch and Django-Silk.** Leveraged **prefetch_related, DB indexing, RDS Read Replicas, and AWS RDS Proxy** to eliminate service crashes and enable horizontal scalability.
- **CI/CD Lead:** Improved **system stability by 90%** by re-architecting **T-Pulse CI/CD pipelines (IaC)** and delivering critical bug fixes and enhancements. Leveraged **Python, Terraform, AWS, and GitLab CI/CD** to streamline delivery for global enterprise clients, including **Shell, ExxonMobil, Adani, Reliance**, and other Fortune 500 companies.
- **Engineering Leadership:** Served as **Reporting Manager (RM)** for a 3-engineer team. Drove team performance through **1:1s and mentorship**, resulting in the promotion of a direct report from **SE-1 to SE-2.** Managed the full talent lifecycle, including technical hiring, onboarding, and offboarding processes to support team scaling.
- **Tech Stack:** Python, Django, Redis, Celery, PostgreSQL, Docker, Kubernetes, Terraform, GitLab CI/CD, AWS

Backend Engineer — Remote
Certa — 05/2022 - 09/2022

- **Backend Engineering:** Designed multi-tenant REST APIs in **Python/Django** for a Workflow Engine platform serving enterprise clients such as **Walmart and Uber**. Maintained **<200 ms latency** while leveraging **Celery** to orchestrate workflows that process **1M+ PostgreSQL writes per workflow execution.**
- **API Optimization:** Eliminated **N+1 queries and sequential scans** in User/Workflow APIs using **Django-Silk**. Reduced SQL queries and achieved a **99% improvement in response times** by implementing **prefetch_related and DB indexing.**
- **System Reliability:** Leveraged **Datadog, Sentry, and AWS CloudWatch** to monitor traffic spikes and resource utilization. Implemented fixes for **race conditions and unoptimized code** to reduce production timeouts and exceptions by **35%.**
- **Tech Stack:** Python, Django, pytest, Redis, Celery, PostgreSQL, AWS

Software Engineer — Remote
Swym — 12/2020 - 05/2022

- **Product Engineering (0 → 1):** Architected and built a **Revenue Analytics Platform** from scratch using **Clojure and PostgreSQL**. Enabled real-time subscription tracking for merchants and partnered with **C-suite stakeholders** to align technical roadmaps with business growth goals.
- **Data Engineering:** Developed an **automated Clojure-based ETL pipeline** to ingest transactional data for **100K+ Shopify merchants**, processing **300K+ historical app events.** Engineered **Metabase dashboards** to automate reporting workflows, saving **60+ engineering hours per month.**
- **Product Engineering:** Redesigned the annual billing workflow by integrating **Shopify GraphQL Billing APIs**, automating **95% of subscription renewals**, eliminating manual processing, and reducing churn.
- **Tech Stack:** Clojure (Functional Programming), Redis, Citus (Distributed PostgreSQL), AWS

Software Engineering Intern   Bangalore, India
PubNinja   02/2020 - 06/2020

- **Frontend Performance:** Achieved a **95% reduction in page rendering time (300 ms → 5 ms)** by optimizing server-side template rendering, **eliminating Cloudflare timeout errors** across the PubNinja creator ecosystem.
- **Backend Engineering:** Developed a unified **Node.js comments service** using a **polymorphic design** to support 3+ content types, **reducing code redundancy by 60%**. Engineered a real-time **Notifications backend via Twilio**, improving platform-wide engagement and retention.
- **Tech Stack:** Node.js, Express.js, Redis, MySQL, AWS

Software Engineering Intern   Bangalore, India
Fyle   04/2019 - 10/2019

- **Microservices:** Optimized the **PDF Exports Microservice** used by thousands of enterprise clients. Developed a **deduplication mechanism** that eliminated **8,000+ redundant API calls daily**. Optimized Docker images, **achieving 50% faster builds**, and resolved critical **P0 production bugs** to ensure service stability.
- **Database Performance:** Optimized production **PostgreSQL** queries by **70% (10 s → <3 s)** through **query execution plan analysis** and index tuning, enhancing platform throughput and reducing database CPU load.
- **Engineering Culture:** Co-authored a technical blog post with the **CTO** on JDBI and Timezones, which became the platform's **second most popular article**, driving external developer engagement.
- **Tech Stack:** Python, Flask, Java, Dropwizard, PostgreSQL, RabbitMQ, Docker, Kubernetes, AWS

PROJECTS

CoWIN Slack Bot

- **Automated Vaccine Notifier:** Engineered a **serverless Slack bot** using **Python and AWS Lambda** to monitor CoWIN REST APIs for real-time vaccine availability. Enabled **30+ successful vaccine bookings** via an automated polling mechanism.
- **Tech Stack:** Python, Redis, Slack API, AWS Lambda

SKILLS

Proficient: Python, Django, Flask, PostgreSQL, AWS, Docker, Redis, Celery, Git
Familiar: C++, Java, JavaScript (ES6), Node.js, Express.js, Clojure, HTML, CSS, React.js, MySQL, MongoDB, Kubernetes, GCP
Others: REST API Design, Microservices Architecture, System Design, Performance Optimization, CI/CD

EDUCATION

Chitkara University   08/2016 - 07/2020
*Bachelor of Engineering in Computer Science and Engineering | **CGPA: 8.76/10***   Punjab, India

- Selected for the **University Coding Academy** (**Top 10% of applicants**). Completed intensive tracks in **Data Structures**, **Algorithms**, and **CS Fundamentals.**
- **Google Developer Student Clubs (GDSC):** Served as a Core Team Member. Organized technical workshops on **Web Technologies** and **Cloud Architecture** for **200+ students**, facilitating hands-on learning sessions.

ACHIEVEMENTS

- **ICPC Asia Kolkata-Kanpur Regionals 2018:** Qualified for the Onsite Regionals (2018), competing against top programming teams in one of the world's most prestigious algorithmic contests.

- **Udacity Certification:** Earned the Full Stack Web Developer Nanodegree by developing industry-vetted applications featuring **responsive UIs**, **REST APIs**, **SQL modeling**, **OAuth 2.0**, and **Linux server configuration** for secure deployment.

- **CodeChef DSA Certification:** Earned the Foundation Level Certification in **Data Structures and Algorithms**, demonstrating strong proficiency in complex problem-solving and algorithmic efficiency.