

# Saath Satheeshkumar

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## EDUCATION

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### Master of Science in Computer Science - King's College London

Sep 2021 – Jun 2025

*First Class Expected*

*London, UK*

## EXPERIENCE

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### Mid-Level Software Engineer - Pleo

June 2025 – Present

*London, UK*

- Joined as a Mid-Level SWE on the Backend Core team, using Kotlin, Kafka, TypeScript, k8s and Grafana.
- Creating new Kotlin microservice for the auth of **60,000+** MAUs, including OTP, SAML and OAuth2.
- Migrating all users from existing TypeScript authentication microservice to use new step-up authentication.
- Maintaining JVM Commons, a library shared across the entire organisation.

### Open Source Software Engineer - Qtile

Oct 2024 – Dec 2024

*London, UK*

- Contributed a highly requested widget to **Qtile**, a Linux window manager with over **5,000 GitHub stars**.
- Built a Python widget using Linux's **redshift**, letting users control screen brightness and colour temperature.
- Added **pytest** tests and wrote clear documentation with screenshots for users and contributors.

### Software Engineer Intern - Netcraft

Jun 2024 – Oct 2024

*London, UK*

- Wrote Perl scripts to backpopulate databases, modifying **tens of millions** of rows.
- Created new services and queues, boosting sandbox throughput to **100,000+** files/day.
- Deployed Perl services in AWS with Kubernetes; monitored performance via Telegraf, InfluxDB, and Grafana.
- Fixed Golang sinkhole API to reduce false malware positives; added Redis caching to processing pipeline.

### Software Engineer - Denr

Aug 2023 – Jun 2024

*London, UK*

- Reviewed and merged backend pull requests, ensuring code quality and consistency across the team.
- Developed a real-time notification service using Apache Kafka and Golang for event-driven updates.
- Built an internal dashboard with PHP's Laravel framework to streamline team workflows.

## PROJECTS

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### AWS Impact Accelerator Program | *Golang, React, AWS, OAuth2, MariaDB, Docker*

Sep 2024 – Apr 2025

- Developed an AI meeting scheduling app for Peterborough Council, reducing manual work by **66%**.
- Configured Microsoft Entra ID for OpenID/OAuth2 user authentication using Terraform.
- Deployed a Golang OpenAPI Docker container to AWS EC2 using AWS ECR for scalable services.
- Defined and deployed cloud infrastructure with Python using AWS CDK.

### My Compiler Project | *C*

Oct 2023 – Apr 2024

- Planned and implemented a compiler for my programming language using C.
- Built a lightweight virtual machine to execute custom bytecode.

### Mobile Fitness App | *React Native, TypeScript, Azure*

Dec 2022 – Mar 2023

- Led a project to build an Android and iOS fitness app with React Native, leading to a **85%** score.
- Implemented authentication and authorisation from scratch with JWTs.
- Recorded fitness data and presented real time statistical insights.
- Ensured app reliability with **300+** unit and integration tests, reaching **87%+** test coverage.

## TECHNICAL SKILLS

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**Languages:** Kotlin, Golang, Python, C/C++, SQL, JavaScript/TypeScript, PHP, Java

**Developer Tools:** Git, Grafana, InfluxDB, Telegraf, Docker, AWS, Azure, Grafana, Kubernetes, nvim, OpenAPI