

SALAAH AMIN

DEVELOPER

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github.com/Salaah01

Personal Profile

I am a Senior Software Engineer at Sky and am the co-founder of Bluish Pink, an e-commerce platform selling handmade cosmetics. At Sky, I work as part of the Network Planning Operations team where I work across several projects, for two of which, I am the Tech Lead. I am involved in systems design, development and maintenance of large-scale systems.

As co-founder of Bluish Pink, I manage the technical side of the business and support other parts of the business including planning, marketing and production.

I am happy working by myself and within a team. I am experienced in managing and mentoring people.

Tech Stack

Front End	HTML, CSS, SASS, JavaScript, TypeScript
Back End	Python, Rust, C, Kotlin
Framework / Libraries	Django, React
Other	Docker, Docker Swarm, Jenkins, AWS, GCP, Azure, Nginx, Apache, ELK, Kafka, RabbitMQ, Redis, CI/CD, Grafana, TimescaleDB

Education

University of Greenwich	2012 – 2015
BSc Mathematics (Hons)	First Class
Leyton Sixth Form College	2010 – 2012
A-Levels	Mathematics (C), ICT (C), Chemistry (C)
AS-Levels	Further Mathematics (E)
Other	EPQ Level 3 (Pass), Level 3 (Basic Expedition Leadership) Award (Pass), Duke of Edinburgh Silver Award (Pass)
Stepney Green School	2007 – 2010

GCSES

A*s	Mathematics, Chemistry, Physics, Religious Education
As	English Language, English Literature, Biology, History
B	Sport Studies

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Employment

Sky March 2022 – Present

Senior Software Engineer Feb 2024 - Present

- Tech lead across two projects
- Supporting Sky's move to support IPv6 addresses by developing a system that enable the ability to allocate customers IPv6 addresses
- Designing solutions to enhance and scale systems. For example, moving part of the database to a graph database and introducing an analytical database to support BA style queries. Introducing an event driven approach with the aid of RabbitMQ and Kafka.
- Mentoring junior developers
- Encouraging a good coding standard including writing useful documentation.
- Project planning with product owners and other stakeholders.

Software Developer March 2022 – Feb 2024

- Part of Network Planning Operations team
- Developing software to manage Sky's network assets (using mainly Python Django)
- Involved in system design discussions to help scale existing systems – involves discussing GCP vs AWS, using RabbitMQ vs Kafka, migrating some SQL tables to MongoDB vs Google Big Data, etc.
- Building ETL pipelines which adopts a microservices architecture where RabbitMQ serves as the message broker. Microservices is used here as the system is made out of many ETLs which have been split into their own services.
- Currently leading a greenfield project. Involves designing the software and architecture.
- Onboarding and coaching new team members
- CI/CD using Gitlab
- Using ELK for logging and Grafana for monitoring
- Collaborating with wider team during major incidents (network outages)
- Optimisation/performance – we have a lot of data that is read/written frequently.
- Maintaining a system that streams messages from a Kafka queue about the network and makes decision based on the network state.

Bluish Pink July 2020 - Present

Co-Founder

- Development the company's e-commerce site (using mainly Python, Django, SASS, TypeScript).
- Development of other company software (software to automate legal work, stock management).
- Other business management responsibilities including marketing, accounting and product development.
- Using a mixture of cloud platforms to service application: DigitalOcean for server space, AWS for S3 (static assets), ECR (storing images), SES (emailing invoices and low stock alerts).

Worldspan Creative Jun 2021 – March 2022

Backend Developer

- Building fully functional server-side applications (using Django).
- Collaborating with the company's frontend development and UX/UI teams.
- Supporting companies move to SaaS and microservices.
- Communicating with clients – discussing roadmaps, changes to specifications, progress, etc.

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Employment

Willis Towers Watson	Aug 2019 – Jun 2021
<i>Technical Support Senior Specialist</i>	<i>Aug 2020 – Jun 2021</i>
<ul style="list-style-type: none">➤ Worked as part of the tier 3 tech support dealing with escalated tickets➤ Supporting and coaching tier 1/2 tech support➤ Maintaining Perl/Python scripts that are used to automate certain support tasks➤ Developing scripts to help tier 1/2 automate certain tasks – e.g: grant system access, copy data across databases, update configurations, etc.➤ Working with Oracle PL/SQL	
<i>Python Developer</i>	<i>Aug 2019 – Aug 2020</i>
<ul style="list-style-type: none">➤ Maintaining and developing the calculations for client pension schemes.➤ Rewriting code in Python that has been written in a propriety language (in-house language based on Fortran).➤ Involved in modernising a legacy system and rewriting it in Python making it more performant and easier to use.	
Holiday Inn – London Whitechapel	Jun 2012 – Aug 2019
<i>Front Office Manager</i>	<i>Feb 2018 – Aug 2019</i>
<i>Front Office Team Leader</i>	<i>May 2017 – Feb 2018</i>
<i>Front Office Team Member</i>	<i>Jun 2013 – May 2017</i>
<i>Food & Beverage Team Member</i>	<i>Jun 2012 – Jun 2013</i>

Recent Projects

Bluish Pink – bluishpink.com
<ul style="list-style-type: none">➤ E-commerce site where customers are able to purchase handmade, vegan cosmetics.➤ Uses Django, React, Python, TypeScript, SASS, SQL (PostgreSQL), AWS and Docker.➤ Uses AJAX requests to fetch data from our own API endpoints to provide content to the user.➤ Stripe integration for payments.➤ Uses Jenkins for CI/CD (will migrate to GitHub Actions to reduce overhead).
json-lineage - https://github.com/Salaah01/json-lineage
<ul style="list-style-type: none">➤ Tool developed in Rust to allow parsing large JSON files without having to load the entire file into memory.➤ Has a Python adapter that allows the tool to be used in Python using both standard and async. Function.➤ In Python, the json.load command loads entire file into memory which can be expensive. This is far much more memory efficient as it loads only one object at a time. This is done whilst still maintaining similar speeds.