

PROFILE

I am a senior software engineer with 10 years of experience. I am skilled in designing reliable and performant systems, integrating with third parties, and building solutions from the ground up. In my next role, I am looking to transition to a staff engineer or architect role.

SENIOR SOFTWARE ENGINEER II | HOUSE OF DECANT – SEPT 2023 – PRESENT

- Achieved an improvement in data privacy and UK/EU GDPR compliance by leading the development of a modern user management and account deletion and data scraping system for our platform using technologies such as Auth0.
- Led the integration of biometric (fingerprint/face id) authentication on the platform.
- Led the architectural design and development of a reporting system of our product inventory and financial figures month-on-month and year-on-year.
- Developed a robust contract testing suite and contract-first development approach for our API, speeding up the delivery of features and improving the collaboration with the frontend team.

Skills: Python, Postgres, Django, Terraform, Docker, AWS, React

SENIOR SOFTWARE ENGINEER | TAKUMI INTERNATIONAL | OCT 2022 – SEPT 2023

- Led the design and development of a new data pipeline using DBT cloud, optimising the accuracy and efficiency of performance statistics analysis on social media posts and advertisements.
- Led the development and launch of an API service, facilitating the delivery of analytics performance data to clients and fostering enhanced decision-making capabilities
- Led the development of a robust system adept at aggregating and normalising influencers' social media content data from Meta and TikTok platforms, significantly enhancing data usability and integration within our system and promoting streamlined analytics.
- Used terraform to enable the seamless deployment of our services to the AWS platform.
- Collaborated with sales and marketing teams to develop data-driven strategies and improve client experience.

Skills: Python, Postgres, DBT, Terraform, Docker, AWS, Django, Flask

SENIOR SOFTWARE ENGINEER | UNMIND LTD | JUNE 2021 - SEPT 2022

- Led Single Sign On (SSO) integration through Auth0 including technical discovery, design/architecture and implementation.
- Designed and led the development of microservice architecture for the identity services team to meet the needs of both our SSO integration and other teams' identity needs. This included the development of services in typescript, and the deployment of services using Terraform.
- Led the discovery and resolution of security issues. Additionally, I led a cross-department Security Working Group to ensure any further security issues were identified and triaged quickly.
- Mentored other engineers (from junior to senior level) at building their technical skills

Skills: Microservices, Nodejs, Typescript, MySQL, Terraform, Docker

SENIOR SOFTWARE ENGINEER | LANTUM LTD | JULY 2019 – JUNE 2021

- Led a migration to Apollo GraphQL from flask and Graphene, independently planned and led a project to replace our graphql gateway. The result was a 3x increase in the number of users served and a reduction of response time.
- Led the implementation of a SQS & SNS based queuing system for email notifications. Improved the visibility of email delivery and reduced error rate by 20%.
- As a technical lead, led the architectural design and development of a new Microservice API for timesheet submission and auditing for freelance Locum staff working for NHS practices - building one of the most important services for the company. Developed billing solutions related to a new product for Lantum's COVID-19 response.

- As a technical lead, led a project to integrate the Lantum platform with the NHS Electronic Staff Record, including management of payroll, annual leave, and education for staff. This was crucial to get the Lantum product to be used by more secondary care institutions, earning Lantum a £1 million deal.
- Led the deployment of a new kubernetes cluster to aid the launch of our new US-based product.

Skills: Microservices, Nodejs, Kubernetes, Python, Devops, AWS, PostgreSQL, Software Performance, Docker

SOFTWARE ENGINEER | ZOOPLA | AUG 2018 – JULY 2019

- As part of an award-winning team (women in tech engineering product team of the year), led the design and development of a new Python & Elasticsearch based API for searching new build developments serving thousands of users on Zoopla.
- Took initiative in mentoring Junior Developers in JavaScript development and good practices.

Skills: Python, Node.js, Devops, AWS, MySQL, Docker, Django

SOFTWARE ARCHITECT | FAIRFX | MAY 2016 - AUG 2018

- Led the re-design of a database schema to meet new requirements in functionality.
- Led a project to integrate the FairFX API with a third-party card processor, which involved a refactor of a large part of the codebase.
- Led an effort in finding and resolving security issues such as Cross-Site scripting and SQL injection, as well as keeping the platform PCI compliant.

Skills: Perl, Node.js, Typescript, AWS, PostgreSQL

FREELANCE | SELF | 2013 – May 2016

- Developed an e-learning mobile video player for a client.
- Engaged in PHP, Wordpress & Javascript web development for various clients.

Skills: Node.js, MongoDB, Angular.js, ionic.js, PHP, Javascript

SOFTWARE DEVELOPER (INTERN) | SHADOWCAT SYSTEMS | JUNE 2014 – JULY 2015

- Led the paypal integration for a SaaS platform for a client.
- Led the black-box testing of a client API and wrote documentation for the API.
- Communicated with clients to understand requirements and deliver required consultancy work.

Skills: Perl, JavaScript, Client communication

TALKS

- NodeJS & AWS Lambda - London Trending.js 2021 | <https://erk.sh/trendingjs>
- Building blazing-fast APIs with FastAPI - Glasgow 10 November 2020(Remotely) | <https://erk.sh/fastapi>
- Building APIs with Node.js, Lambda & Serverless - London Jan 2019 | <https://erk.sh/lnug1901>

Bonus: Don't recognise the URL shortener I used here? I wrote it myself!

QUALIFICATIONS/LANGUAGES

- English - Fluent
- Japanese - 日本語能力試験 (JLPT) N4 (Basic Japanese)
- AWS Certified Cloud Practitioner

EDUCATION

University of Huddersfield - 1st class Bachelor of Science Web Technologies