Russell Wilson

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Certified AWS Cloud Practitioner || Certified AWS Solutions Architect || Certified Alteryx Designer

Profile

Experienced Senior Developer with expertise in AWS, DevOps, continuous integration and architecture. Accomplished in leading development of large and technically complex projects across multiple technologies, market sectors, and products, consistently exceeding stakeholder expectations.

Technical skills

Python || JavaScript || PHP || React JS || Vue JS || Next.js || Serverless Framework || Strapi || Laravel || SQL || NoSQL || MongoDB || MySQL || SQL Server || PostgresSQL || WordPress || Node JS || Express || Fastify || Git || Docker || Portainer || Nginx || Ubuntu || Debian || Ansible || Auth0 || Jira || Trello || Cloudflare || Digital Ocean || Vercel || Networks || IAM || S3 || ECS || EC2 || SQS || DynamoDB || Lambda || Lightsail || Amplify || CloudFront || Fargate || SonarQube || Traefik || Terraform || GitHub Actions || Travis CI || YAML || JSON || XML || Bootstrap || Tailwind CSS|| HTML & CSS || Agile || Scrum || Waterfall || Pytest || Jest || Alteryx || Power BI || Tableau || Debugging || R || Scikit-learn || Pandas || Numpy || PyTorch || Postman || API design || Microservice architecture || Excel || Analytics

Experience

Technical Principal | Soak Digital | Norwich | April 2023 - Present

- Experienced in leading technical projects and defining architectural strategies for performant applications with high concurrency and scalability requirements.
- Providing robust and tested development strategies, from CMS paired web applications supporting 1000s of concurrent requests to SAAS analytics platforms with numerous 3rd party integrations.
- Expertise in automated infrastructure provisioning with Terraform across the full AWS Ecosystem.
- Organisation DevOps expert, responsible for all new build provisioning, infrastructure and CI deployments.
- Confident in leading complex projects, successfully delivering multiple phased projects with average phases exceeding £100k in billings.
- Adept planning and organisation skills, honed through documenting technical scopes, application architecture, testing strategy, user guides and acceptance criteria. Responsible for defining technical tasks, both allocating and supporting developer resources.

Technical Producer | Soak Digital | Norwich | April 2022 - April 2023

- Full stack developer, experienced in delivering secure and scalable code across a large number of full stack solutions ranging in complexity across multiple industries and organisations, from start-ups to FTSE 100 clients.
- Experienced in building secure, reliable and reusable modular software solutions with test driven development.
- Experienced in building scalable microservices with Docker and automated CI/CD deployment pipelines with Travis CI and GitHub actions.
- Concise communicator and empathic listener. Worked with a variety of clients to develop and document technical solutions considerate of industry, cost and technical constraints. Closely worked with the Head of Technical in supporting technical solutions for over £400k in successful billings.
- Supported junior developers across projects and introduced new standards in automated Python tooling for common data extraction and manipulation tasks, reducing task times and producing tangible cost savings.
- Worked across multiple successful projects based in a number of project frameworks including Scrum, Agile and Waterfall.

Data And Analytics Developer | JISC | London | September 2021 - April 2022

- Experienced in developing ETL solutions with Python and Alteryx.
- Delivered a Machine Learning solution for text filtering in free text fields from customer response surveys. The final solution combined word lists and a supervised SVM model which was implemented commercially.
- Confident data storyteller, working alongside senior data analysts to derive insight from data. Supported by a detailed understanding of data types, statistical methods and charting libraries.
- Worked across technologies, Tableau, R, Python and PowerBI to produce detailed reports and client dashboards.
- Comfortable deciphering and communicating high-level technical concepts to non-technical users and ensuring benefits are understood.
- Experienced working with a variety of RDS technologies and with large volumes of data.
- Introduced new automation, automating production of a standard word document reports and routine data manipulation tasks with Python scripts.
- Led a series of proof-of-concept builds for a serverless data portal. Worked with a variety of tooling from AWS including, SQS, Lambda and Amplify.

Education

- **MSc Computing Science** | Distinction | University of East Anglia | 2020-2021
- **Business Economics BA(hons) with professional experience** | 2:1 | University of Hull | 2015-2019

Recent Projects

International Renewable Energy Provider | Solar Asset Analytics Portal

A bespoke reporting portal that combines data from multiple APIs into a detailed analytics solution.

- Defined and developed a Docker containerised microservice architecture.
- Provisioned all AWS environments with Terraform and integrated additional services such as Cloudflare and Auth0. Additionally, provisioned all GitHub CI/CD pipelines and SonarQube actions.
- Defined an optimized reporting database star schema. Implemented Knex.Js seeds scripts, RDS indexes and automated backups.
- Subject matter expert for API design and integration. Led development of a scalable Fastify API and detailed technical document. In addition, I continued to investigate and develop ETL strategies for additional service onboarding based on developing demands from the client.
- Provided consultation and guided stakeholder in 3rd party vendor investment. Communicated technical principles to a large number of technical and non-technical stakeholders.
- Developed responsive and SSR UI with React JS, TailwindCSS, Ant Design and Next.js..
- Introduced SonarQube and linting to ensure strong and secure coding standards.

National Driving School | Admin Portal

Laravel based complete admin portal.

- Built Laravel API following MVC patterns for architecture.
- Created custom Laravel models, migrations and seed scripts.
- Designed custom middleware for transaction processing and custom authentication.
- Created views with blade templating and Vue JS.
- Developed shareable API documentation and collections with Postman.
- Provisioned infrastructure in AWS and automated CI with Bitbucket pipelines and Ansible.

Other Recent Projects

- Global mining group | CMS based website.
- Global leisure group | CMS based website.
- Global payment analytics provider | Analytics tool and reporting dashboard.
- UK workplace training provider | Survey and report builder.
- FTSE 100 retailer | Multiple wordpress builds and custom plugins.