Vipin AJAYAKUMAR

Full stack web developer

PERSONAL DATA

🏠 London, UK ✉ vipinajayakumar@icloud.com

🔗 linkedin.com/in/vipinajayakumar ⓞ github.com/bluprince13

🌐 bluprince13.com (blog)

SUMMARY

Full-stack developer with expertise spanning frontend, backend, and infrastructure technologies. I derive great satisfaction in crafting code, learning new technologies and solving challenging problems for my customers. Coding is also my hobby as you can see on my GitHub and blog. I am looking for a full-stack or backend role where I can continue to learn and grow.

TECHNICAL SKILLS

These are the skills I currently employ. However, I am also highly confident in my ability to rapidly learn and adapt to new technologies or tools as the need arises.

Web tech	React, Node, Next, SvelteKit
Languages	TypeScript, Python
Databases	DynamoDB, DocumentDB (MongoDB), RDS
DevOps	AWS

EXPERIENCE

Dec 2019 — Current

Software Development Engineer at AMAZON, London, UK

Amazon Prime Video

Part of a full-stack agile team responsible for developing and maintaining a website used by external partners and internal users to collaborate and onboard new devices to Prime Video. It uses a microservice architecture and interfaces with services owned by other teams.

- Designed an automated failure detection mechanism for downstream processes, eliminating the need for daily manual checks and reducing project delays. Designing involves requirements gathering, high-level architecture trade-offs, detailed design of changes to APIs or other components, reviewing and agreeing on the design doc with my team, creating stories/tickets, and guiding the team through implementation.
- Designed task ownership and notification features, enhancing an existing workflow management system, to streamline process times. Captured requirements from other teams and designed changes to the UI, infrastructure and several microservices.
- Improved access to data for our organisation by developing an ETL application aggregating data owned by multiple teams and showing insights on QuickSight dashboards. These dashboards are now used by internal teams in monthly reviews and used to make business decisions.
- Migrated services from legacy internal tools to AWS aligning with strategic business goals. Dove deep to understand existing functionality, equivalent AWS services and delivered feature parity with minimal customer disruption.
- Transformed pipelines into CI/CD by integrating automated testing and alarms.
- Resolved high severity issues, wrote incident analysis reports, addressed security risks and supported users as the on-call.
- Led fortnightly team meetings to raise and discuss any issues, and learning sessions to spread knowledge. Delivered many technical presentations myself.
- Recognised for consistently producing high-quality written content across team wikis, designs, and incident reports, reflecting my strong commitment to excellence.
- Mentored an apprentice towards completing their first year.

Technologies: React, Redux, Python, TypeScript, Java, Kotlin, AWS: Lambda, S3, CloudWatch, DynamoDB, DocumentDB (MongoDB), RDS, SNS, SQS, EC2, IAM, Glue, QuickSight, Athena, CDK

Feb 2017 Dec 2019	Workstream lead at ROLLS-ROYCE, Derby, UK Trent XWB-97 Aeroacoustics Primary interface between Rolls-Royce and Airbus on all noise activities for the XWB-97 engine. • Coordinated multiple workstreams in support of the project milestones. • Planned and carried out engine tests at the NASA Stennis Space Center to support aircraft noise certification. • Saved several months of repetitive work by using Python to automate test data analysis. • Initiated monthly webcasts on Python to facilitate the sharing of knowledge globally. • Championed the use of programming to solve Engineering problems and worked to improve the developer ecosystem at Rolls-Royce. **Technologies**: Python
Sept 2015 Feb 2017	Graduate trainee at ROLLS-ROYCE, Derby, UK Development, Service Eng, Design & Make project, Aeroacoustics Managed development activities and service issues. Designed a rig test to provide proof of concept for a ship tunnel thruster. Developed a noise data visualization tool using Python.
Jun 2014 Aug 2014	Intern at ROLLS-ROYCE, Derby, UK Power Transmissions Subsystem Obtained funding for a manufacturing cost-reduction opportunity by proving the business case.
Jun 2012 Aug 2013	Intern at ROLLS-ROYCE, Bristol, UK Development, Thermal & Fluid Systems Created various automated tools and wrote process improvements. Made air system assessments.

Education

2018	Part-time study in DATA SCIENCE, **Aston University**, UK
2015	Master of Engineering in AEROSPACE, **University of Bath**, UK First-class honors	2nd rank in class of ~190 Thesis: Modelling of load reduction for wings near stall
2010	A-levels, **Trivandrum International School**, India A*s in PHYSICS, MATH, CHEMISTRY, BIOLOGY & COMPUTING Highest mark in India for Physics, Chemistry, Biology & Computing

Recognitions

2019	Rolls-Royce Performance & Aerothermal Systems ABC'S award for Simplicity
2015	Royal Aeronautical Society (RAeS) University Prize for the best Aerospace graduate
2015	The Duke of Edinburgh's Award — Gold
2015	Bath Students' Union Outstanding Contribution to Peer Mentoring Award
2015	Bath Students' Union Volunteer Recognition Scheme Bronze Award
2014	Royal Aeronautical Society (RAeS) Centennial Scholarship (£3,000)
2013	International Society of Transport Aircraft Trading Foundation Scholarship ($10,000)
2012	'the Bath Award' accrediting skills developed through extra-curricular activities
2010	University of Bath International Scholarship (£2,500 for each year of study)
2010	Outstanding Cambridge Learner Awards — A-Level Examinations
2009	Outstanding Cambridge Learner Awards — AS Level Examinations

Interests

Programming, reading, blogging, listening to tech/financial podcasts, swimming.