

Vipin AJAYAKUMAR

Developer . Data scientist . Engineer

PERSONAL DATA

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SUMMARY

I studied Engineering at university, but since then I have been teaching myself programming and web development. Not only do I love writing code, particularly JavaScript and Python, but I also relish learning to make use of different technologies. I enjoy discovering patterns in data and creating data visualisations to tell a story. I [blog](#) about programming as well so that I can share my knowledge and passion for it with others. My current aspiration is to become a web developer with a focus on front-end JavaScript. From there I hope to work my way up to being a full stack developer.

I require sponsorship to apply for a Tier 2 (General) visa to work in the UK.

TECHNICAL SKILLS

Most of my experience is in data analysis using Python. However, my main area of interest today is web development. My current skill set is as follows:

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| Web tech & frameworks | React, Redux, Node.js, HTML5, CSS3, D3.js, Chrome developer tools |
| Scripts | JavaScript, Python |
| Data science | Pandas, Numpy, Jupyter Notebook, Matplotlib, Plotly |
| Versioning | Git, GitHub |
| Documentation | Sphinx, \LaTeX |
| Testing | Unittest, Jest |
| DevOps | Docker, Azure DevOps |

EXPERIENCE

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| FEB 2017 | Workstream lead at ROLLS-ROYCE, Derby, UK |
| Current | Trent XWB-97 Aeroacoustics |
| | <p>Engineering:</p> <ul style="list-style-type: none"> • Primary interface between Rolls-Royce and Airbus on all noise activities for the XWB-97 engine. • Liaised with Rolls-Royce and Airbus noise engineers, the project leadership, and various other engineering functions to coordinate multiple workstreams in support of the project milestones. • Showed resilience in delivering to tight timescales under pressure. • Lead requirements definition, planning and risk management. • Modelled engine noise using in-house noise prediction tools to support the design evolution. • Planned and carried out an engine test at the NASA Stennis Space Center to support aircraft noise certification. <p>Programming:</p> <ul style="list-style-type: none"> • Saved several months of repetitive work by using Python to automate test data analysis. • Supported other developers in developing Python packages. • Initiated monthly webcasts on Python to facilitate the sharing of knowledge globally. • Created web apps using React.js to make improvements in the workplace. • Championed the use of programming to solve Engineering problems and worked to improve the developer ecosystem at Rolls-Royce. • Regularly advised other developers on Python, JS and general programming issues. |

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| SEPT 2015 TO FEB 2017 | Graduate trainee at ROLLS-ROYCE, Derby, UK Development, Service Eng, Design & Make project, Aeroacoustics Managed development activities, service issues and delivery of solutions to the customer. Designed and ran a rig test to provide proof of concept for a novel engineering solution. Developed a noise data visualization tool using Python and automated a week's worth of work. |
| SUMMER 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 TO AUG 2013 | Intern at ROLLS-ROYCE, Bristol, UK Development, Thermal & Fluid Systems Created various automated tools and wrote process improvements. Made air system assessments and updates to the model. |

EDUCATION

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| CURRENT | Master of Science in DATA SCIENCE, Aston University , UK Key modules: Understanding data, Data mining |
| 2015 | Master of Engineering in AEROSPACE, University of Bath , UK First-class honors Percentile rank: 98 th Key modules: CFD, Turbulence & Noise, Aerodynamics, Advanced Control, System Modelling & Simulation Thesis: "Modelling of load reduction for wings near stall" Advisor: Prof. Ismet GURSUL |
| 2010 | A-levels, Trivandrum International School , India A*s in PHYSICS, MATH, CHEMISTRY, BIOLOGY & COMPUTING |

SCHOLARSHIPS AND CERTIFICATES

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| 2015 | Royal Aeronautical Society (RAeS) University Prize for the best Aerospace graduate |
| 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 |

VOLUNTEERING

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| 2015 - 2016 | Apprentice and Graduate Association (agA) Sports Officer at ROLLS-ROYCE |
| 2015 - 2016 | Science festival community project team member at ROSLISTON FORESTRY CENTRE |
| 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 - 2015 | Duke of Edinburgh's Award Club Secretary at UNIVERSITY OF BATH |
| 2013 - 2015 | Gallery steward at THE HOLBURNE MUSEUM |
| 2012 - 2013 | Apprentice Association Intern Rep at ROLLS-ROYCE |
| 2012 - 2013 | Wildlife filming scheme community project team member at AVON WILDLIFE TRUST |
| 2010 - 2011 | Design and make a solar water heater at ENGINEERS WITHOUT BORDERS |
| 2008 - 2009 | English teacher at KORANI GOVERNMENT SCHOOL |

INTERESTS

STEM ambassador, programming, Raspberry Pi, amateur radio intermediate licensee
Running, cycling, snowboarding, reading, blogging, piano