

Vipin AJAYAKUMAR

Developer . Data scientist . Engineer

PERSONAL DATA

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SUMMARY

I am pursuing a career at the intersection of Science and IT. I studied Engineering at university, but since then I have been teaching myself programming and web development by doing online courses and working on various personal projects. I also [blog](#) about programming. Not only do I enjoy the thought process of coding, but I also value the huge leaps in productivity it allows me to make. I am passionate about customer satisfaction, continuous improvement and the pursuit of perfection in everything that I do. My current aspiration is to be a full-stack web developer solving scientific/engineering problems.

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:

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
Database	MongoDb
Versioning	Git, GitHub
Documentation	Sphinx, \LaTeX
Testing	Unittest, Jest
DevOps	Docker, Azure DevOps

EXPERIENCE

FEB 2017 Current	Workstream lead at ROLLS-ROYCE, Derby, UK Trent XWB-97 Aeroacoustics Engineering: <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. • Planned an engine test at the NASA Stennis Space Center to support aircraft noise certification. Programming: <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

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

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

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