Patrick Young

patrick@youngweb.site | 571-606-1445

EXPERIENCE

TECHNICAL LEAD | NASA
Aug 2023 - July 2025 | Hampton, VA

- Designed and oversaw implementation of NASA's Enterprise Data Platform, enabling secure, scalable, and standards-based data analytics across all mission directorates and business groups.
- Provided technical oversight of the design and implementation of NASA's Enterprise Data Catalog and Open Data Portal, improving data governance, discoverability, and access throughout the Agency, its partners, and the public.
- Championed the establishment of the NASA Data and Analytics Center of Excellence, fostering a modern data-centric culture.
- Contributed to NASA's data analytics strategy and reference architectures, driving Agency-wide adoption of a data mesh, data-based access control, and consolidating disparate systems.
- Served on NASA's IT Technical Review Board, ensuring software initiatives align with the NASA Data Strategy and reference architectures.
- Provided subject matter expertise to business and mission teams, enabling cross-domain collaboration, cost optimization, and improved data accessibility across NASA.

SOFTWARE ENGINEER | Booz Allen Hamilton
Sept 2020 - Aug 2023 | Newport News, VA

- Rapidly up-skilled on project management, architecture design, and consulting skills to perform as the acting project manager and most-senior software engineer.
- Provided technical continuity and recovery during contract transition, leading efforts to re-establish delivery momentum for a secure Impact Level 4 (IL4) data governance and analytics suite.
- Wrote comprehensive architecture and requirements documentation, improving stakeholder trust and knowledge continuity.
- Spearheaded Agile ceremonies and backlog grooming, aligning delivery targets with team skills and sprint cadence.

FULL-STACK DEVELOPER
| Intelligent Decision Systems, Inc.
Jan 2019 - Sept 2020 | Newport News, VA

- Developed a data discovery service built with a ReactJS front-end and zero-trust microservice architecture (Python, Java, C++).
- Developed a novel **Natural Language Processing** model for a user-aware semantic ranking engine, improving search relevance by 10% via transfer learning and sentiment-aware tuning.
- Delivered a time-aware recommendation engine based on user interactions, increasing engagement with key datasets.

RESEARCH ASSISTANT, COMPUTER VISION LAB
| ODU Research Foundation
April 2017 – Dec 2018 | Norfolk, VA

- Contributed to NIH-funded projects applying deep learning and computer vision to brain MRI segmentation (BraTS dataset).
- Built a data pipeline for classifying hostile behavior in LiDAR videos.

EDUCATION

OLD DOMINION UNIVERSITY
BS in Computer Science
Dec 2018 | Norfolk, VA

TECHNICAL SKILLS

LANGUAGES & MARKUP
Python, HCL, C++, C#, Java, SQL, JavaScript, R, Bash, Markdown, HTML/CSS

FRAMEWORKS
ReactJS, ASP.NET Core MVC, Flask

CLOUD COMPUTING
Azure Cloud, AWS, GCP
Docker, Kubernetes, Proxmox

DEVOPS
Agile Software Development
GitLab, GitHub, Azure DevOps, Jira
Configuration Management, Infrastructure as Code
Terraform, Helm, Ansible

DATA TOOLS
Data Science, Machine Learning
Computer Vision, Text Analytics, Learning-to-Rank
SVM, Random Forest, LambdaMART, Neural Networks
Data Engineering
Databricks, Airflow
Data Analyst
Power BI, Tableau, Plotly, Matplotlib

PROJECTS

ENTERPRISE DATA PLATFORM
NASA | Aug 2023 - Present

ENTERPRISE DATA CATALOG
NASA | Nov 2024 - Present

OPEN DATA PORTAL
NASA | Nov 2024 - Present

ENTERPRISE TABLEAU SERVER
NASA | Nov 2024 - Present

OPERATIONAL ENVIRONMENT THREAT ACTOR NET
BAH | Jan 2023 - Aug 2023

OPERATIONAL ENVIRONMENT DATA PLATFORM
IDSI, BAH | Jan 2019 - Aug 2023

LINKS

LinkedIn:// **patyx**
Github:// **paddy74**
StackOverflow:// **patyx**