

PIYUSH DUBEY

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Summary

Experienced Software Engineer with expertise in Cloud and DevOps tools, IT infrastructure & management, AI & ML with strong skills in automation, monitoring and scripting.

Experience

K & S Partners | *Intern*

Oct'23-July'24

- Gained hands-on experience in Patent Prosecution (Examination Response, Hearing Submissions & Strategies) for AI/ML, Network and Software Based Patents of Qualcomm.
- Automated patent research workflows using Python scripts, reducing manual intervention by 30%.

Technical Skills

Programming and Scripting Languages: C, C++, Python, Java, Bash, Shell Scripting

Cloud & DevOps: Git, Docker, Kubernetes, Jenkins, Terraform, GitLab, CI/CD Pipelines, Amazon Web Services (S3, EC2, IAM, Route 53, VPC, Load Balancer, Lambda, CloudFront), Microsoft Azure, Azure DevOps

Monitoring Tools: Nagios, Prometheus, Grafana **Configuration Management:** Ansible, Puppet

Infrastructure as Code (IaC): Terraform, Ansible **Databases:** Oracle, MySQL, MongoDB

IT Infrastructure & Support: Server Management, Network Security, Virtualization Tools: VMware vSphere, VMware ESXi, VirtualBox, Hyper-V **Networking:** Firewalls, TCP/IP, VPNs, Load balancers, and DNS configurations

Web Development: HTML5, CSS3, JavaScript, REST APIs, FastAPI, React JS, Node JS, Express

Development Tools & IDEs: VS Code, Jupyter Notebook, Google Colab, PyCharm, IntelliJ IDEA, GitHub, Postman

Operating Systems: Linux (Ubuntu/Redhat), Windows Server, MacOS

Technologies/Libraries/Core Skills: Machine Learning, Artificial Intelligence, Scikit-learn, Pytorch, Keras, Data Analytics, Jira Software, Trello, Agile Methodology, Tableau, Power BI, Pandas, NumPy, Matplotlib, Seaborn

Projects

🔗 **Cloud Infrastructure Automation with Terraform & AWS** | *AWS, Terraform*

November 2024

- Deployed EC2 instances, configured VPCs, set up Load Balancers, and managed S3 buckets and IAM policies
- Reduced manual intervention, enabled repeatable provisioning, and improved cloud resource management, reducing deployment time. Technologies: Terraform, AWS (EC2, VPC, Load Balancer, S3), Cloud Infrastructure, Automation

🔗 **Organic Fruit Full Stack Development** | *React, Node, Express, MongoDB*

May 2024

- Developed a full-stack web application with React JS for the frontend and Node JS for the backend, implementing RESTful APIs and user authentication.
- Integrated MongoDB for database management and delivered a seamless user experience with efficient backend operations.

🔗 **Backend for Task Management System API** | *FASTAPI, SQLAlchemy*

Dec 2023

- Developed a backend for a Task Management System using FastAPI to manage tasks, projects, and deadlines. Technologies : FastAPI, PostgreSQL, SQLAlchemy, OAuth2, JWT, Docker, AWS EC2
- Deployed the backend on AWS EC2 with Docker for scalability and reliability

🔗 **Data Visualization Dashboard with Power BI** | *Power BI*

May 2023

- Designed an interactive dashboard using Power BI for real-time analytics on cloud and DevOps operations
- Provided insights into resource utilization, enabling informed decision-making and optimizing resource allocation.

🔗 **Machine Learning Model Deployment with Flask & AWS** | *Python, Deep-learning*

October 2023

- Built and deployed a breast cancer prediction model for predictive analytics using Flask as the backend, hosted on AWS EC2 for scalability and reliability
- Automated the deployment pipeline, ensuring a cost-effective and efficient hosting environment for the machine learning application.

Certificates

- IBM Cloud Essentials — IBM , Coursera
- Network and System Configuration Fundamentals — LPU Value Added Course – CompTIA A+ equivalent
- Database Management Systems-1— Infosys Springboard

Education - (Graduated)

Lovely Professional University

B.Tech in Computer Science and Engineering [CGPA : 8.41/10]

August 2020 – June 2024

Phagwara, Jalandhar, Punjab