

MANVITH KRISHNA KANDUKURI

513-399-1376 | manvith.krishnak@gmail.com | [linkedin.com/in/manvith-krishna-kandukuri](https://www.linkedin.com/in/manvith-krishna-kandukuri)

EXPERIENCE

Software Engineer

Nov 2023 - Present

Aristocrat Technologies

Las Vegas, NV

- Architected a DevOps platform supporting 500+ Python automations to increase operational efficiency by 80%, expand infrastructure capacity by 3x, and enhance system reliability for mission-critical tasks by 99%, saving \$1.73M annually
- Built a custom Jenkins infrastructure utilizing 300+ Groovy scripts, plugins, REST API, and Javadoc, optimizing CI/CD pipelines with object-oriented design principles to reduce deployment time by 70% and ensuring zero-downtime rollouts
- Mitigated over 100 security vulnerabilities through strategic cross-functional collaboration, reducing system risk exposure by 75% and achieving full compliance with industry security standards, significantly enhancing overall system resilience
- Led the integration of GitHub and SonarQube, establishing automated code quality checks that cut technical debt by 50%, enhanced code maintainability across 500+ projects, and reduced review time by 40%
- Implemented Grafana and Prometheus for 24/7 observability, increasing issue detection by 90%, improving system performance by 60%, and enabling proactive monitoring and error resolution of 500+ automations
- Developed an AI-driven documentation tool, decreasing manual documentation time by 80%, covering 100% of SOPs, and enhancing transparency for 500+ new automation processes, reducing onboarding time by 50%

RPA Engineer

Sep 2023 - Nov 2023

Aristocrat Technologies

Las Vegas, NV

- Automated 50+ complex workflows in finance and supply chain teams using advanced data structures and algorithms in Python and C#, saving 25+ full-time hours weekly and boosting productivity by 60% across critical daily operations
- Engineered high-performance ETL pipelines with Python and SQL, integrating seamlessly with D365, IBM PAFE, Microsoft Office, and OneDrive, accelerating data transformation by 40% and enabling real-time financial insights
- Refactored legacy codebase in C++ and Java into a modular object-oriented architecture, reducing technical debt by 70% and enhancing performance by 50%, creating a robust foundation for scalability and long-term maintainability

Software Engineer Co-op

Oct 2021 - Aug 2022

Fox Corporation

Cincinnati, OH

- Automated ML modeling resource deprecation using C#, .NET, Python, AWS SageMaker, SQL, and Postman, reducing resource management time by 30% and boosting operational efficiency for the Recommendations team by 20%
- Utilized Python, TensorFlow, and PySpark for data analysis and machine learning to deliver personalized media recommendations, driving a 25% increase in customer engagement time on the Fox mobile and web platforms
- Implemented automation features for ML model training and deployment, decreasing deployment time by 20% and enhancing scalability by 30% for the Recommendations platform, enabling rapid adaptation to evolving user needs

Software Engineer Co-op

Jan 2021 - Apr 2021

Fox Corporation

Cincinnati, OH

- Leveraged AWS technologies, including Lambda functions and EC2 instances, to enhance the ML platform's processing speed and scalability, resulting in a 15% increase in processing efficiency and establishing a foundation for automations
- Implemented AWS SageMaker, SQS, SNS, and S3 to significantly boost the ML platform's model training frequency and enhance data retrieval accuracy, achieving a notable 25% improvement in ML model accuracy and operational efficiency
- Documented comprehensive technical design specifications, including UML diagrams using Lucidchart, resulting in 50+ detailed process documents that streamlined onboarding for 4 new team members and enhanced team collaboration

TECHNICAL SKILLS

Languages: C++, Python, C#, Java, Groovy, SQL, JavaScript, TypeScript, HTML/CSS, Scala, Go, R

Concepts: Data Structures and Algorithms, Object-Oriented Programming (OOP) and Design Patterns, API Development and Integration, Machine Learning Model Development, Test-Driven Development (TDD), Cloud Architecture and DevOps Practices

Frameworks: REST API, .NET, React, PyTorch, Flask, Django, Vulkan, OpenGL, JUnit

Developer Tools: Jenkins, GitHub Actions, Git, Docker, Terraform, Ansible, AWS (EC2, IAM, SageMaker, S3, Lambda, RDS, DynamoDB), Visual Studio, IntelliJ, Linux, SonarQube, Grafana, Prometheus, Postman, CloudWatch, Unreal Engine, Unity

EDUCATION

University of Cincinnati

Aug 2018 - Apr 2023

Bachelor of Science in Computer Science

Cincinnati, OH