

AKHIL NUNE

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Education

University of Cincinnati - Cincinnati, Ohio

Jan 2023-May 2024

Master of Science in Information Technology.

GPA: 4.0

Coursework: Machine Learning & Data Mining, Cloud Azure, Mobile Application Development, UI/UX, Advance Storage Technologies.

Skills

- **Languages:** C#, C++, Python, Java, ReactJS, Linux, HTML, CSS, JavaScript, TypeScript.
 - **Cloud Services:** Azure (DevOps, Kubernetes, IAM, Functions, Storage), AWS (EC2, VPN, IAM, Lambda), CI/CD pipelines, Docker.
 - **Databases:** SQL, T-SQL, MySQL, NOSQL (MongoDB, Azure Cosmos DB).
 - **Technical:** OOP, DS Algorithms, .NET Core, ASP.NET Core, ADO .Net, LINQ, xUnit, NUnit, Microservices, RESTful Web Services.
 - **Machine Learning & Data Analysis:** Scikit-Learn, Pandas, NumPy, TensorFlow, Predictive Modeling, Statistical Analysis.
 - **Tools & Software:** Microsoft IIS, Kafka Integration, Jenkins, Terraform, Visual Studio, Swagger UI, Postman, SDLC, Agile, Git.
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Work Experience

SA Testing Services, UC – Full-Stack Engineer

Mar 2023-Apr 2024

- Developed and Managed University Testing Services Website using HTML 5, CSS, JavaScript, React and Shell Scripting, optimizing SQL queries for 10000+ student records. Utilized **Cloud Azure Services** for application scalability.
- Monitored Windows server infrastructure using **Azure Monitoring service** and developed automated scripts to ensure seamless performance and availability of critical systems.

LTI Mindtree - Software Engineer

Oct 2021-Dec 2022

- Built **3 features** for a CSI banking application using C# .NET business logic, achieving 60% reduction in application response time.
- Independently developed and deployed a parameter-based search feature using **ASP.NET Web API**, HTML 5, ReactJS, JavaScript, jQuery and SQL (SSIS), integrated Swagger API documentation.
- Integrated **OAuth 2.0 API** authorization protocol within ASP.NET MVC for secure API integration (token management).
- Streamlined Agile & CI/CD pipelines (**Azure Repos, GitFlow**) with DevOps tools (**Jenkins**) for microservices, enabling early issue detection and a 40% improvement in application quality across on-premises and Azure Cloud environments.
- Developed and Tested secure **RESTful APIs** using ASP.NET Core, achieving over 70% code coverage with **xUnit** and SonarQube for continuous quality monitoring.
- Migrated 10 microservices of a banking application to Azure Cloud using **Docker** for deployment and **Azure Kubernetes Service** (AKS) for orchestration, achieving a 35% improvement in infrastructure management.

DXC Technology - Associate software Engineer

Mar 2020-Oct 2021

- Optimized and Deployed 5 console and web applications (C#, .NET MVC) with efficient SQL queries and stored procedures, ensuring high performance and reliability on **Microsoft IIS** (on-premises and cloud Azure).
- Worked on real-time notifications using **SignalR** for efficient server-to-client communication, enhancing user engagement and responsiveness within web applications.
- Configured and maintained virtual environments with **Azure VMs** and integrated **Azure API** Management for secure and efficient API deployment, improving overall system reliability.

EASTech - Startup Founder

Dec 2019-Feb 2021

- Led a team of 4, successfully secured **State Funding** (\$300), patent application and participated in university competitions (SIH, Tie-Grad, Boot Camp's) and **State-Level** recognition (top-60 Telangana Innovation Yatra 2020).
 - Design & built a multi-processing PCB with ESP32/GSM for faster emergency communication (**C # /Java (Android Development)**) and Front-end web application for Startup company using HTML, CSS and JavaScript.
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Projects

Online eCommerce Website - C#, .NET, ReactJS, SQL Server, Azure services, CI, Jenkins, SDLC, POSTMAN ([Link](#))

- Designed a Full-Stack website using ASP .Net MVC, Azure App Services, Azure Load Balance, Functions and Key Vault, Utilized Azure DevOps for streamlined SDLC management, achieving CI pipeline using Jenkins to automate test & deployment.
- Integrated 25 ReactJS components for user-friendly interface and implemented 15+ RESTful Web API endpoints for interaction.

Crop Prediction - python, M.L algorithms, Firebase, ETL ([Link](#))

- Engineered a Python ML system (scikit-learn, Pandas, NumPy) for precise crop yield and price prediction (Random Forest, SVM, KNN, Decision Tree Classifier) using a 10k-record dataset. Integrated Firebase for real-time data access & Statistical Analysis.
 - Delivered 95% accuracy improvement & 70% faster processing with ETL for data preprocessing.
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Certifications

- Azure-900 Fundamentals by Microsoft ([L](#))
- Azure AZ-400 Designing and Implementing Microsoft DevOps Solutions ([L](#))

Involvements

- Managed and led a group of peers in effective delivery of projects (health-care Firebase-mobile application and Credit Risk using Machine Learning) at the university level.