

Akaash Panad

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Graduate student at New Jersey Institute of Technology with 2+ years of experience in software development and cloud security. Skilled in leading teams to enhance software performance and design secure cloud infrastructures. Dedicated to leveraging both academic and professional expertise to drive organizational growth and deliver impactful projects.

EDUCATION

Masters of Computer Science Sep 2022 - May 2024
New Jersey Institute of Technology, NJ

Bachelor of Engineering, Computer Engineering Sep 2017 - May 2021
University of Mumbai, India

WORK EXPERIENCE

New Jersey Institute of Technology, NJ, United States - Data Analytics Research Assistant Dec 2023 - Feb 2024

- Directed comprehensive analysis of mass spectrometry datasets ranging from 100MB -1GB with Python in **Jupyter Notebook**, employing **Pandas**, **Scipy signal** for enhanced data processing and **matplotlib** for visualization.
- Achieved 90% accuracy in data interpretation, significantly enhancing project outcomes by extracting, cleansing, and standardizing complex datasets containing over 10,000+ data points with Python's robust libraries.

Accenture, Mumbai, India - Associate software engineer Oct 2021 - Aug 2022

- Developed and deployed comprehensive custom security solutions within **Azure Sentinel**, encompassing advanced analytics rules, incident response management, automated playbooks, investigative notebooks, and detailed workbooks, leading to a 70% improvement in the detection and mitigation of **security threats** and anomalies.
- Applied **KQL** to construct advanced threat hunting queries, enhancing the organization's security posture by 50%.
- Led **SIEM** and **SOAR** integration via **Azure DevOps**, cutting incident response times by 40% and lifting operational efficiency by 30%. Deployed solutions across 100+ projects, showcasing scalability and expertise.
- Coordinated data gathering and analyzed **security incidents**, designed **SOC SIEM** use cases, and enhanced security dashboards. Drove R&D and successfully integrated **M365** with Azure Sentinel, enhancing security protocols.
- Analyzed **security logs** and network traffic, achieving a 55% reduction in incidents and a 45% faster resolution of high-priority alerts, effectively improving our threat management approach.

Tech Mahindra, Mumbai, India – Full Stack Developer Intern July 2021 - Sep 2021

- Proficiently employed **Selenium** to architect a robust unit testing infrastructure for client web application, resulting in an 11% monthly reduction in reported bugs and propelling an 80% enhancement in scalability of code efficiency.
- Collaborated **GIT** to develop and deploy **RESTful APIs** in **Django**, improving data retrieval speed by 24%.
- Leveraged **HTTP** methods and **JSON** for streamlined data exchange, improving system backend performance.
- Managed software integration with **AWS Lambda** and API lifecycle, enhancing system reliability and scalability.

TECHNICAL SKILLS

Programming: Python, Java, C, C++, PHP, CSS, JavaScript, Machine Learning, MySQL, Linux, MongoDB, PL SQL.
Cloud Platforms: Azure(SIEM, KeyVault, Defender, Sentinel, Devops, KQL, IAM) AWS:(EC2, S3, RDS, EKS, VPC)
Tools/Libraries: Angular JS, jQuery, Bootstrap, Nodejs, REST API, Selenium, Django, Git, Jenkins, Apache, Docker, Pandas, Spring Boot, JIRA, React, Databricks, Reactjs, Express js, mongoose, Devops, CI/CD pipeline.

PROJECTS

Heart Disease Prediction - Machine Learning, Python, Django, MongoDB, RestAPI, Agile development

- Implemented a sophisticated machine learning system using **Python**, **Django**, and **MongoDB** within an **MVC architecture**, achieving 90% accuracy in heart disease prediction by leveraging advanced analytics techniques.
- Tested **REST API** endpoints using **Postman** in multiple environments, leveraging **Agile** for improved efficiency.
- Applied **Scikit-Learn** and **TensorFlow** for model implementation, enhancing early stage diagnosis capabilities.
- Assembled the application in **Django**, boosting data management and user experience by 30% in clinical settings.

Online Banking System – PHP, JavaScript, NodeJS, jQuery, Bootstrap, MySQL

- Designed a secure online banking platform supporting 10,000+ users with seamless fund transfer capabilities.
- Ensured a 99% success rate in processing 50,000+ secure transactions monthly, enhancing financial security.
- Developed a transaction history system that enhances user experience by offering real-time transaction data access.

CERTIFICATIONS

- Oracle Cloud Infrastructure Foundation (Oracle)
- Professional certification in Artificial Intelligence (Huawei)