Sai Ganesh Grandhi

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Education

Master of Science in Computer Science May 2023 - Jan 2025
University of Windsor • Windsor, ON

- Grade: 90.6/100
- **Coursework**: Artificial Intelligence, Machine Learning & Pattern Recognition, Advanced Software Eng.
- Recipient of Computer Science Graduate Scholarship

Bachelor of Technology in Computer Science Jun 2015 - Apr 2019
GITAM University• Vizag, India

Technical Skills

- **AI & ML Concepts**: Transformer Encoders, CNNs, Classification, Model training, Supervised Learning, LLMs
- **Libraries & Frameworks**: PyTorch, SKLearn, Pandas, NumPy
- **Research:** Behavioural Biometrics, Continuous Authentication
- **Scripting/Data Analysis**: Python, Bash, SQL, Pandas, EDA, Excel
- **Programming**: Python, Git, Agile, C#
- **OS/Cloud:** UNIX/Linux, Windows Server, Azure, GCP – Vertex AI
- **Security Tools & Concepts** (Prior Experience): Active Directory, Cyber-Ark PAM, Centrify, Okta, LDAP, Zero Trust, Access Provisioning, Password Vaulting, PAM, RBAC, AD Bridging, SSO, SAML 2.0, NIST.

Work Experience

Graduate Assistant Aug 2023 - Dec 2024
University of Windsor • Windsor, ON

- Led hands-on lab sessions for 50+ students in Java programming and social media technology under graduate courses
- Provided individualized support to students during office hours, helping troubleshoot coding challenges.
- Graded assignments and exams, ensuring fair assessment while giving actionable feedback.

Security Analyst Jun 2019 - Feb 2023
Cognizant • Chennai, India

- Led NIST SP 800-53 (Account Management) assessments on UNIX servers, remediating 200+ vulnerable local accounts.
- Performed data analysis on Discovery and Audit (DNA) reports, CMDB, and Active Directory reports to identify and catalog vulnerable accounts using Python, and Excel (Power Query).
- Authored and maintained process documentation for local account audit, ensuring compliance with organizational policies.
- Designed RBAC roles using AD Security groups to control privileged access on UNIX servers.
- Managed local accounts, local groups, elevated privileges on UNIX servers through Centrify Access Manager.

Academic Projects

User Identification through Eye tracking (master's Thesis) Apr 2024 - Dec 2024
University of Windsor • Windsor, ON

- Developed a Transformer-based continuous authentication system using eye-tracking biometrics. Achieved 97.2% accuracy with binocular data, outperforming DenseNet.

- Demonstrated challenges in long-term stability and highlighted the superiority of binocular over monocular tracking.
- Conducted comparative analysis of neural networks (DenseNet & Transformers) vs. machine learning models (XGBoost), using eye tracking datasets.
- Schedule and train bash jobs on HPC cluster environments (compute Canada – Graham and Cedar).

Bookstore system May 2023 - Sep 2023

University of Windsor • Windsor, ON

- Collaborated with a team to design and implement a C# e-commerce application leveraging Agile and Scrum methodologies, enabling users to search, add to cart, and purchase books
- Managed code efficiently using black box testing, Git for version control and Azure DevOps for project tracking and CI/CD pipelines, achieving a project grade of 92%

Online Courses

- Machine Learning by Andrew NG
- Neural networks and Deep learning, Coursera

Publications

Thesis:

Grandhi, Sai Ganesh," Evaluating VR/AR Security through Continuous Authentication via Eye Tracking Movements" (2025)

Peer reviewed Conference Article:

S. G. Grandhi and S. Samet, Evaluating the Long-Term Viability of Eye-Tracking for Continuous Authentication in Virtual Reality. Accepted at the CCNET conference, February 2025