Guruprasad Nayak

Computer Scientist (AI and Data Science)

Singapore (Permanent Resident)   Contact: +65 92780697
Email: guruprasadnayak24@gmail.com   Personal Website: Website   LinkedIn: guru-nayak

Results-oriented Computer Science graduate with a B.S. in Computer Science (Artificial Intelligence concentration), complemented by two years of operational experience through National Service in the Singapore Armed Forces. Proven ability to lead teams, manage high-impact projects, and drive digital transformation initiatives across defense, academia, and cybersecurity environments. Strong foundation in AI, data science, cybersecurity, and cloud technologies, with a track record of recognized achievements in safety, performance, and team leadership.

EXPERIENCE

Singapore Armed Forces, Singapore - *Sergeant*

JULY 2023 - AUGUST 2025

- Led a team of 30 vehicle operators; managed scheduling, training, and cross-unit communications to maintain mission readiness.
- Architected and delivered the unit's first digital platform - designed requirements, built prototypes, and deployed solutions that replaced paper processes for personnel accounting and data distribution, reducing manpower requirements by ~80%.
- Built internal data management tools to automate daily reporting tasks and reduce manual entry time, saving ~60 hours/month across the team.
- Participated in SG60 National Day Parade as part of the Artillery Mobile Column crew.
- Awarded the 23SA RSM coin for safety and logistical contributions to SG60 National Day Parade; received the Safety Steward Award for effective incident response.

University of Delaware, USA - *Teaching Assistant*

AUGUST 2022 - DECEMBER 2022

- Taught and mentored approximately 200 engineering students in Python programming; created Python lab materials and exercises to reinforce core concepts.
- Coordinated communications between students and course leadership, collaborated with a team Teaching Assistants, and improved assignment submission rates by 40%.
- Designed step-by-step guides and sample code notebooks used by succeeding cohorts.

Maharashtra Cyber Police, India - *Cyber-Security Intern*

JUNE 2019 - JULY 2019

- Performed OSINT and data analysis to identify persons of interest; reduced initial candidate pool through targeted research, and conducted behavioral and pattern analysis to support investigations.
- Tracked and documented movement of persons of interest using database tools and custom spiders, producing actionable intelligence for investigations.

Ernst & Young, India - *Cyber-Security Intern*

JUNE 2019 - JUNE 2019

- Shadowed penetration testers and executed vulnerability assessments using Metasploit, Wireshark, and Kali; documented findings and remediation steps.
- Ran social engineering tests to evaluate employee adherence to security policies; summarized results and recommendations for remediation.

EDUCATION

University of Delaware, USA - *Bachelors in Science, Computer Science*

AUGUST 2019 - JUNE 2023

- Select Coursework: Machine Learning, Data Structures & Algorithms, Databases, Operating Systems, Rapid Prototyping, Human Computer Interaction, Quantum Computing, Parallel Computing
- Participated in graduate research in Human Computer Interaction, helping create a tool to aid children with autism.

SKILLS

Programming Languages: Python, Java, C, C++, SQL

Frameworks and Libraries: Tensorflow, Numpy, Pandas, PyTorch

Security Tools: Wireshark, Metasploit, Kali, OSINT tools

DevOps and Cloud: AWS, Github

Other: Machine Learning, Data Science, IoT, Blockchain

CERTIFICATIONS

Certified Ethical Hacker (CEH) - EC-Council, Completed: 08/2018

AI: Implications for Business Strategy - MIT Sloan, Completed: 09/2020

Blockchain Technologies - MIT Sloan, Completed: 08/2021

Internet of Things: Business Implications - MIT Sloan, Completed: 03/2022

AWARDS

Singapore Armed Forces - 23SA Regimental Sergeant Major Coin, Safety Steward Award 2025

Dean's List - University of Delaware Fall 2019

Silver and Bronze Academic Awards - Canadian International School 2013-2019

FIRST Lego League (Robotics Competition, S.T.E.M.) - Winning Team 2017