

Rohit Panda

Profile Brief

Cybersecurity-focused Computer Science student at the University of Wollongong (SIM) with hands-on experience in system security, application development, and cloud infrastructure. Proven track record in supporting national IT deployments (Accenture, IBM) and delivering secure, scalable solutions through hackathons and personal projects. Passionate about applying technology to solve real-world problems.

Education

University Of Wollongong via SIMGE

BSc Computer Sciences, Digital System Security and Artificial Intelligence and Big Data.

8th Dec 2025

Nanyang Polytechnic

Diploma In Multimedia & Infocomm Technology

17 April 2022

Skills

- **Cybersecurity:** Network Security, Cryptography, Digital Forensics
- **Cybersecurity Tools:** BurpSuite, Wireshark, GDB
- **Artificial Intelligence:** pandas, NumPy, scikit-learn, matplotlib, seaborn, OpenAI API, HuggingFace Transformer.
- **Programming:** Java, Python, C++, C
- **Web Development:** HTML, CSS
- **Database Management:** MySQL, PostgreSQL, SQLite
- **Soft Skills:** Leadership, Public Speaking, Problem Solving
- **Statistical Analysis Tools:** Radiant, Microsoft Excel

Personal Projects

PassMan, July 2025 - Present

Developing an online web application to store over 10,000 passwords with AES encryption, along with login/logout capabilities.

Malware Detection with AI, Jun 2025

Developed a machine learning pipeline to detect malware based on static binary features. Trained and evaluated models, including Random Forest and XGBoost, on labelled malware datasets.

SpotifySecurityExt, Mar 2025

Created a browser extension that scans URLs from Spotify ads and detects threats using the VirusTotal API. Built a responsive frontend in React with threat engine result display and local storage caching.

AI IDS Project, Dec 2024

Designed a prototype Intrusion Detection System (IDS) that classifies network packets as benign or malicious using ML. Captured network traffic using Scapy, extracted features, and trained models for supervised classification.

Membership & CCAs

Singapore Computer Society | July 2024 – Present

AiSP, Division 0, NOHATS | July 2024 – Present

- Participated in various Cyber workshops and events like StandCon, Introduction to Evasion, Web Pentesting, Bug Bounty, etc

Hackathons I've Been Involved In:

- Project Altair Hackathon 2025 - Team Leader
- SIMGE Microsoft Hackathon 2025 - Team Leader
- DELL SCDF Innovation Challenge 2025 - Team Leader
- SGHackitRx Hackathon 2025 - Team Leader

CTF Events I've been Involved In:

- SSMCTF 2025 - Team Leader
- Blahaj CTF 2024,2025 - Solo
- LearnCTF - Solo
- Kaspersky CTF 2025 - Team Leader

Additional Courses:

Hobbies and Interests:

- Stamford Web Security
- MIT OpenCourseware, Harvard CS50s
- Hack The Box Modules
- Palo Alto Network Academy
- Google Cloud Security Engineer Learning Path
- Splunk Academy
- Proficient in C++, Python, Java, HTML, Flask and SQL.
- Capture the Flag competitions
- Building Projects
- Cycling
- Jogging

Experience

Accenture

Quality Engineer/Tester

June 2025 - Aug 2025

Contract

- Expedited the rollout of the National Billing System (NBS), a country-wide initiative to replace the legacy hospital billing system in Singapore.
- Collaborated alongside developers and business analysts to triage and validate over 100 production bugs, ensuring quick turnaround for urgent fixes.
- Analysed discrepancies over 100 between expected vs. actual billing outcomes, contributing to early detection of major financial impact issues.
- Collaborated with stakeholders from over 20 healthcare clusters to consolidate bug reports, streamline resolution workflows, and improve system stability post-launch.

IBM

Desktop Engineer

Feb 2022 - Jul 2022

Contract

- Deployed software modules for NGEMR (Next Gen Medical Records) and EGIS ECM (Electronic Collection Module) in collaboration with IHIS.
- Led a team of 10 interns/contractors to support hospital-wide deployment and ongoing system maintenance.
- Investigated and resolved clinical and ward-level incident reports, ensuring service continuity.
- Provided support for clinical modules, including phlebotomy specimen tracking and data integrity.

Sembcorp Industries

IT Operations

Mar 2021 - Aug 2021

Intern

- Designed UI/UX flows and wireframes for Project Ezi, Sembcorp's recycling initiative (admin portal + gamification elements).
- Created marketing materials, storyboards, and board games for community environmental outreach in partnership with Dunearn NC and Sembawang GRC.
- Co-authored and published the SembWaste Environmental Sustainability Report with guidance from senior staff.
- Conducted audits and operations setup for two Cash-for-Trash recycling stations, ensuring adherence to safety and risk guidelines.

Conscription

Singapore Police Force

Trainer

Jul 2022 - May 2024

Jurong Division

- Assisted in the design and delivery of physical and tactical training for NSFs at Jurong Division.
- Developer of a Static Exercise Training System using computer vision and Python.
- Developed and Applied Robotic Process Automation to streamline repetitive workload which resulted in ~60% cut.
- Introduced a monthly presentation slide for office usage through the use of Power BI.
- Led IPPT coaching efforts for conscripts and received the Outstanding PNSF Award and Commander's, Commissioner's Award for exemplary performance and innovative project.