

Navaneeth Sivakumar

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Cybersecurity enthusiast with a strong background in computer science. Effective collaborator and problem solver. Driven by a natural curiosity to explore and understand complex challenges. Eager to leverage expertise to strengthen security for organizations.

Technical Skills

- **Core Knowledge:** Web Pentesting, Network Pentesting, Computer Networks, GRC.
- **Programming:** Python, Java, Bash Scripting, C.
- **Database Management Systems:** MySQL, PostgreSQL, Neo4j/CQL, MongoDB.
- **Version Control, Tools & OS:** Git, Subversion, Splunk, Linux & Windows environments.

Industrial Experience

- **Software Engineer** *CREST @ The University of Adelaide, Jan '24 - Present*
 - Identified limitations in selecting optimal test cases for an LLM testing framework. Implemented methods leveraging various optimization algorithms to improve test case selection efficiency.
 - Collaborated on a project to develop an open-source tool framework for the streamlined management of software supply chain metadata generation, distribution and storage.
- **Research Assistant** *CREST @ The University of Adelaide, Oct '22 - Jan '23, July '23 - Jan '24*
 - Enhanced penetration testing efficiency by contributing to a security orchestration project. Built a Neo4j knowledge base to integrate offensive security tools with a Python application, enabling their streamlined execution for penetration testing.
 - Supported a publication for ICST 2024 by significantly contributing to a project evaluating large language models using metamorphic testing techniques.
 - Played a key role in projects focused on building and testing backdoored DNNs, and leveraging LLMs to improve penetration testing.
 - Contributed to research activities by performing general research assistant duties such as literature reviews, data collection, and assisting with experiment design and execution.
- **Teaching Assistant** *The University of Adelaide, Jan '23 - Dec '23*
 - Supported the effective delivery of the Secure Software Engineering and Cybersecurity Fundamentals courses at the School of Computer and Mathematical Sciences.
 - Enhanced student learning by identifying knowledge gaps, addressing student inquiries, and grading coursework.
 - Maintained course relevance by recommending enhancements and participating in the update of course structure and study materials to reflect current industry standards.
- **Junior Penetration Tester** *Wattlecorp Cybersecurity Labs LLP, Jan '20 - July '20*
 - Enhanced cybersecurity expertise by independently developing and practising skills in penetration testing, vulnerability assessment, and reporting findings on realistic web and network environments.
 - Mentored and collaborated with a team of interns and content creators responsible for contributing to blog posts and social media content for the organization.
 - Contributed to the growth of a national cybersecurity community by assisting in building and managing a platform of passionate students and professionals.

Education

- **The University of Adelaide, Adelaide, South Australia** **GPA: 6.5/7**
 - *Master of Cyber Security*
Focus: Cyber Security Fundamentals, Computer Networks, Business Data & Cyber Security and Information Risks, Threats & Controls.
- **Amrita Vishwa Vidyapeetham, Kollam, Kerala, India** **GPA: 8.36/10**
 - *Bachelor of Technology in Computer Science and Engineering, Graduated with Distinction*
Focus: Object Oriented Programming, Data Structures and Algorithms, Design and Analysis of Algorithms, Operating Systems, Database Management Systems, Software Engineering, Cryptography and Software Project Management.

Projects

- **Information Risk Management Framework (IRMF) July '21 - Nov '21**
Led and collaborated with a team of six to build an information risk management framework for a non-profit organization in Adelaide, South Australia. Applied methods to measure risk tolerance, identify information assets, find vulnerabilities and threats, document risks, evaluate risks and suggest risk mitigation techniques.
- **A deep-learning approach to find respiratory syndromes in infants using thermal imaging**
June '19 - Feb '20
Led and collaborated with a team of three to build a deep learning model that determines the respiratory rate from a thermal video sample of an infant and classifies it into one of four disease classes to predict the possibility of any respiratory syndromes. Wrote a paper that was published at ICCSP 2020.

Accomplishments

- eLearnSecurity Junior Penetration Tester (eJPT) certified.
- Accomplished "The Definitive GRC Analyst" training to build skills in technical auditing, risk analysis and management, and developing organizational policies and procedures.

Volunteer Experience

- **Technical Trainer Kerala, India - June '18**
Conducted a social service project called Empowering Youth for Digital India as a part of the Student Social Responsibility (SSR) program, through which we provided fundamental technical education to the students of Fort High School, Trivandrum, Kerala, India.
- **Web Development Trainer Kerala, India - Oct '17**
Volunteered as a trainer where I worked with senior students to conduct a workshop on web development using HTML/CSS and the Django framework.

Languages & Other Skills

- Can converse in English, Malayalam, Tamil and Hindi.
- Good communication, presentation and documentation skills that help connect better with clients.
- Able to lead and collaborate with organizational teams to plan and execute tasks.

References are available on request.