

Vishnuprabha

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I'm a passionate and hands-on developer with a strong foundation in software development, cybersecurity, and data-driven application testing. I specialize in building secure, scalable, and user-focused web and mobile applications using tools like Python, Flask, SQL, Selenium, and Appium, with experience spanning from API development and database design to automated testing and production deployment.

Experience

2025

Software Developer | Class Compass | Work From Home (Ontario, Canada)

- Contributed to the development of a full-stack educational web platform that helps students discover suitable classes based on interests, availability, and goals.
- Developed and maintained a scalable web application using Python (Flask) for the backend and Bootstrap for the frontend.
- Designed and implemented RESTful APIs for key functionalities including class search, user management, and teacher scheduling.
- Built and optimized SQL (PostgreSQL/SQLite) database schemas to ensure efficient data storage and retrieval.
- Key feature implementations:
 - Advanced class search and filtering system
 - Teacher profile management and scheduling
 - Student enrollment tracking
 - Payment integration and billing system
- Improved platform performance via code optimization and caching techniques.
- Participated in Agile development, including sprint planning, daily stand-ups, and code reviews.
- Implemented automated testing using pytest to ensure code quality and maintain system stability.
- Used Git and GitHub for version control and collaborative development.
- Deployed services using Gunicorn and Docker.

2022 - 2023

Independent Security Researcher

- Identified and responsibly disclosed a security vulnerability in Etoro's website, enhancing its security.
- **Received official appreciation** and a monetary reward for the responsible disclosure from Etoro.
- Strengthened knowledge of web security, secure development practices, and ethical hacking principles.
- Identified and responsibly disclosed a Cross-Site Scripting vulnerability in a university website.
- Provided a detailed report, including proof-of-concept and mitigation recommendations.
- Identified SQL Injection and Cross-Site Scripting vulnerabilities in a government website.
- Analyzed the website's backend interactions to uncover security flaws and recommended secure coding practices.
- Submitted a responsible disclosure report, ensuring timely remediation of vulnerabilities.

- Developed a proof-of-concept (POC) to demonstrate exploitability and suggested secure database query practices.

Education

2024 - 2025

Mobile Application Development | Cambrian College | Sudbury, Ontario

2023 - 2024

Cybersecurity | Cambrian College | Sudbury, Ontario

2018 - 2021

Bachelor of Computer application | Oriental School of Hotel Management | Vythiri, India

Personal Projects

2025

Passquarium – Developed a secure cross-platform password manager using Flutter and Firebase, implementing AES-256 encryption, multi-factor authentication with biometric integration, real-time cloud synchronization, and offline-first architecture supporting Android, Windows, iOS, macOS, Linux, and Web platforms.

2024

Scientific Calculator – Created a scientific calculator backend API using DOTNET.

2023

Red team and blue team – Created a lab and worked as a part of red team and blue team and collaborated both using twin gate.

2022

Automated Reconnaissance tool – Created an efficient tool using BASH script to collect data regarding a website and successfully integrated other tools to it for finding vulnerabilities.

Skills

Programming Languages – C#, C++, bash, python, Javascript, HTML & CSS, SQL, Kotlin

Web Development – HTML, CSS, Flask, Javascript, Node.js, .NET

Testing & Debugging – Selenium, unit testing, debugging & code optimization

Development Tools & Platforms – Git & GitHub, Visual Studio, VS Code, Android Studio

Soft Skills – Problem solving, Mentorship & Communication, Attention to Detail, Adaptability & Quick Learning, Collaboration

Certifications

2022

Cybersecurity | Avodha.com | India