

Nikhil Prakash Jayaprakash Saridhakumari

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EDUCATION

- **Purdue University** West Lafayette, Indiana, US
Master of Science in Computer Science; GPA: 3.3/4 Aug. 2023 – May. 2025
Relevant Courses: Information Security, Operating Systems, Network Security, Software Security, Security Analytics, Database Management & Systems, Data Communications & Networks.
- **SRM Institute of Science and Technology** Chennai, TN, India
Bachelor of Technology in Computer Science and Engineering; GPA: 9.29/10 Jul. 2019 – May. 2023

PROFESSIONAL EXPERIENCE

- **Purdue Systems Security** West Lafayette, Indiana, USA
Cybersecurity Awareness Associate for Information Assurance Oct 2024 – Present
 - Promoted cybersecurity best practices, planned awareness events, created cybersecurity content, and assisted with web development for various websites.
 - Managed KnowBe4 self-phishing campaigns, user account administration, monitored cyber trends, wrote articles, and handled support tickets for cyberaware@purdue.edu.
- **Cybernaut Edu Tech LLP** Chennai, TN, India
Application Developer Intern Feb 2020 – Aug 2020
 - **Platforms Utilized:** Android Studio, Google Firebase, Figma, Visual Studio Code, Microsoft Azure.
 - Led webinars on app development using Android Studio and Java, increasing edu-tech enrollment.
 - Enhanced full-stack development and mentorship skills through hackathons and team collaboration.

SKILLS SUMMARY

- **Programming & Scripting Languages:** C, C++, Java, Python, Bash, JavaScript, HTML, XML, CSS, SQL, Kotlin
- **Certifications:** Application & Web Development, UI/UX & Graphic Design, Full Stack Development, and Python Programming from **MyCaptain Edu Tech**.
- **Hackathons:** Led bot function implementation at Yellow Messenger 2020; Optimized development processes and collaboration tools at Ivyhacks 2020.

PROJECTS AND PUBLICATIONS

- **Dynamic Load Balancing in SDN-Based Data Center Networks** Aug 2024 - Dec 2024:
 - Developed a heuristic dynamic load-balancing algorithm to optimize network traffic in SDN-based data centers.
 - Improved throughput, reduced latency, and minimized packet loss by redistributing traffic flows dynamically.
- **Partial Scoring of SQL Queries** Aug 2024 - Dec 2024:
 - Developed a system to partially score SQL queries by breaking them into sections (e.g., FROM, WHERE, GROUP BY) and assessing their correctness.
 - Leveraged crowdsourcing for manual verification of discrepancies between instructor and student query outputs.
 - Used similarity metrics and human feedback to identify and categorize missing, extra, or partially incorrect records.
 - Improved grading accuracy and efficiency by combining automated evaluation with human intuition for ambiguous cases.
- **Artificial Intelligence Based All-in-One Personal Assistant Using Smart Mirror** Jan 2022 - May 2022:
 - Engineered a budget-friendly AI-powered smart mirror offering customizable features like scheduling and news updates.
 - Effectively balanced affordability with advanced functionality, enhancing user experience in consumer electronics.
- **Drowsiness Sensing System of Driver based on Behavioral Characteristics to Prevent Road Accidents Using Real-Time Optimized Computer Vision** Jan 2023 - May 2023:
 - Designed a camera-based system to detect driver drowsiness in trucks, addressing a key cause of road accidents.
 - The prototype effectively identified fatigue, earning recognition for its potential in accident prevention.
 - **Link:** restpublisher.com/articlejame/10-46632-jame-2-2-4