CHRIS HARRY PATRICK

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Profile

Results-driven Software Developer with strong expertise in Java, SQL, and full-stack development. Experienced in building scalable applications and optimizing database performance. Proven teaching assistant with a passion for mentoring and system design. Scrum basics Certified and well-versed in Machine Learning and Cybersecurity.

Experience

UNIVERSITY OF WISCONSIN-MILWAUKEE
TEACHING ASSISTANT & GRADER | MILWAUKEE, WI
AUG 2023– PRESENT

- Conducted 25+ lab sessions, helping over 100 students understand object-oriented programming in Java, leading to improved average lab scores by 15%
- Mentored 60+ students in Computer Security, simplifying complex topics like encryption, authentication, and network security. Provided academic support through doubt-clearing sessions and graded assignments with actionable feedback, improving class performance by 10–15%.
- Provided feedback and grading support for 200+ DBMS assignments, accelerating turnaround time by 20%.

Education

Master of Science in Computer Science
University of Wisconsin, Milwaukee. | CGPA: 3.6 (up to Sem 3)
Relevant coursework: Machine Learning, Natural Language Processing, Cyber Security, Computer Networks.

Bachelor of Engineering in Computer Science and Engineering
Velammal Engineering College, Chennai affiliated to Anna University, Chennai | CGPA: 9.09
Aug '19 - Apr '23.
Relevant coursework: Programming in Java, Object Oriented Programming, Database Management Systems, Data Structures.

Projects

- JavaFX Chat Application
  Designed a scalable real-time chat app using JavaFX and socket programming, enabling seamless private messaging and real-time user tracking for 10+ simultaneous users.
- Federated Learning for Image Classification
  Developed a federated learning pipeline to simulate dynamic client participation using non-IID CIFAR-10 image data and improved model accuracy by 12% by optimizing aggregation frequency and addressing device heterogeneity across training nodes.
- Spam Message Detection Using Machine Learning
  Built and compared spam classifiers (Naïve Bayes, SVM, Random Forest) using NLP feature engineering and achieved 96% accuracy in spam detection, enhancing filtering effectiveness in simulated real-world datasets.

Technical Skills

- Languages
  Java, Python, C, C++, JavaScript, SQL, HTML, CSS

- Frameworks & Libraries:
  JavaFX, React, Docker

- Web & Application Development:
  Full-Stack Development, Debugging, Performance Optimization

- Database Systems
  MySQL, PostgreSQL.

- Version Control & Collaboration:
  Git, GitHub.

Certifications

- AWS Certified Cloud Practitioner (CLF-CO2)
  Cert Prep: 1 Cloud Concepts
  Cert Prep: 2 Security and Compliance
  Cert Prep: 3 Cloud Technology and Services
  Cert Prep: 4 Billing. Pricing, And Support

- Scrum: The Basics

Extracurricular Activities

- Represented Don Bosco School in Inter-School Tennis Ball Cricket Tournament (Nov '12).
- 3rd place in Junior State Soft Tennis Championship, Salem (Jun '15).
- Tirupattur District Runner-Up in Lawn Tennis Singles (Feb '16)
- Active member of Youth Red Cross and Rotaract Club, Chennai (Sep '19 – Present).
- Represented Velammal Engineering College in intra-college cricket tournaments (Apr '20, Mar '22).

Community Service

- Organized blood donation camps with Youth Red Cross, Velammal Engineering College (Feb '20).
- Distributed food to the homeless and fed stray dogs in Chennai (Aug – Sep '21).
- Participated in lake and coastal cleanup drives in Chennai (Sep – Oct '21).
- Teaching Mathematics and English to underprivileged children in Chennai (Jan '22 – Present).