

Muhammad Haziq Zuhaimi

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EDUCATION

BS in Computer Science

University of Texas at Arlington • GPA: 3.761

Arlington

SKILLS

- Android, Android Studios, C, C++, CSS, Docker, Git, HTML, Java, JavaScript, Linux, Python, SQL, Visual Studios

PUBLICATIONS

Enhancing Symbolic Execution with LLMs for Vulnerability Detection

05/2024

Muhammad Haziq Zuhaimi | Muhammad Nabil Zaharudin

PROJECTS

Cooking Coach

- Developed an Android recipe recommendation app (Java, Firebase) that suggests dishes based on user-provided ingredients.
- Contributed to front-end UI design and implemented interactive graphs and charts (Chart.js) in a 4-person Agile team to visualize macros and dietary facts, overcoming challenges to ensure seamless display across devices.

FindMyCovid: Real-Time COVID-19 Data Mapping

- Designed and developed an interactive web application to visualize real-time global COVID-19 data.
- Integrated Leaflet API and COVID-19 API to create a dynamic map visualizing real-time, country-level pandemic statistics.

PhoneBook API

- Designed a REST API (C, Docker) prioritizing secure coding practices, to mitigate buffer overflow and format string vulnerabilities.

WORK EXPERIENCE

University of Texas at Arlington

University of Texas at Arlington • 01/2024 - 05/2024

Undergraduate Researcher

- Implemented Large Language Models (LLMs) to reduce symbolic execution tool runtime by 71.43%, boosting zero-day vulnerability detection efficiency.
- Identified memory-related vulnerability patterns in over 50 documented CVEs, leading to improved understanding of system security.
- Streamlined interaction between KLEE and targeted LLMs by creating automation scripts, resulting in a 71.43% reduction in time spent on manual tasks. This optimization greatly enhanced the accuracy and speed of research analysis.

Teso Life

Teso Life • 08/2022 - 01/2023

Junior Sales Associate

- Increased sales productivity by 10% through effective multitasking, leading to meeting and exceeding sales targets consistently.
- Increased product visibility and sales potential by 25% through strategic analysis and redesign of store displays, resulting in a boost in overall store revenue.