Zaidan Sani

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Based in Singapore, Singapore

About Me

Penultimate-year Computer Science student with a Cybersecurity diploma, with a focus on Software Engineering. Passionate about leveraging technology on data to solve complex problems and deliver innovative solutions.

Experience

Teaching Assistant, CS2030S: Programming Methodology II Jan 2025 - Apr 2025 (expected)
School of Computing, National University of Singapore
- Prepared and executed lab sessions for a class of 24 students

Teaching Assistant, CS1101S: Programming Methodology Aug 2024 - Nov 2024
School of Computing, National University of Singapore
- Prepared and executed studio (tutorial) sessions for a class of 7 students
- Attained a 4.8 feedback rating (out of a possible 5), with faculty average 4.3

Student Researcher Sep 2020 - Feb 2021
Institute for InfoComm Research
- Engineered features for machine learning, such as opcode n-grams from Windows executable files using Ghidra
- Implemented machine learning and deep learning, improving accuracy on existing model by up to 2%.
- Awarded a Distinction for the work done during the internship by the school.

Education

Bachelor in Computing (Computer Science) Aug 2023 - May 2026 (expected)
National University of Singapore
- GPA: 4.82/5.00 (on track for Honours (Highest Distinction))
- Undertaking a focus area in Software Engineering
- Relevant coursework:
  - CS2030S: Programming Methodology II (A)
  - CS2103T: Software Engineering (A+)

Diploma with Merit in Information Security and Forensics Apr 2018 - Apr 2021
Ngee Ann Polytechnic
- GPA: 3.99/4.00
- Valedictorian of the Class of 2021, School of InfoComm Technology, and CSIT Silver Medalist
- Relevant coursework:
  - Malware Analysis Tools and Techniques (AD)
  - Ethical Hacking (AD)
  - Secure Software Development (A)

Projects

NUS StudyBuddy: Collaborative Timetable Planner May 2024 - Aug 2024
Technologies: TypeScript, Firebase, ReactJS, JoyUI, NextJS, Vercel
- Done as a summer project for NUS Computing's Summer Orbital program
- Planned, designed, and implemented the user interface, from ideation to execution
- Implemented back-end systems using Firebase, for authentication and data retrieval
- Implemented CD/CI and automated testing

Splunk SIEM: Cost-effective SIEMs for SOHO offices Oct 2020 - Dec 2020
Technologies: Splunk, Palo Alto Firewall

- Done as a Capstone project at Ngee Ann Polytechnic
- Designed and implemented a simulation host network of VMs to simulate and detect attacks
- Configured firewalls to track attacks
- Configured ingestion and aggregation of logs into Splunk
- Implemented dashboards for visualisation for a proof-of-concept of actual use in real implementations

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Skills

Programming Languages Python, Java, JavaScript, R, TypeScript
Databases Firebase, Microsoft SQL
Data Science, Machine Learning pandas, numpy, sk-learn
Mathematical and Statistical Tools R, LaTeX
Cybersecurity Malware Analysis, Digital Forensics

Honors and Awards

Valedictorian, Class of 2021   May 2021
Ngee Ann Polytechnic
- Awarded for strong academic and co-curricular performance.

CSIT Silver Medalist   May 2021
Ngee Ann Polytechnic
- Awarded for second most outstanding performance in the cohort.

A*STAR Science Award (Polytechnic)   Jun 2019
Agency for Science, Technology and Research (A*STAR)
- Awarded for demonstrating particularly strong aptitude and interest in mathematics and science.

Ngee Ann Polytechnic Scholarship   Aug 2018
Ngee Ann Polytechnic Scholarship
- Awarded for having outstanding academic results, strong core values, and leadership qualities.

Leadership Experience

Executive Vice-President   Apr 2018 - Apr 2021
ORION, Ngee Ann Polytechnic, School of ICT
- Led a team of up to 60 people
- Planned and executed flagship outreach events for the school, including IT and programming based competitions for Secondary School students.
- Liaised between internal and external parties, including with outside supporting entities as well as other co-curricular bodies for events.