

MUHAMMAD KHAIR BIN ABDUL RASHID

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PERSONAL PROFILE

A meticulous and curious individual whose goal is to dive deep into the fields of Computer Science. Working hard while participating in Hackathons together with Capture-The-Flags has allowed me to understand, appreciate, and motivate me to learn more in this versatile discipline of technology. Pushing my own boundaries and staying curious will indefinitely allow me to reap what Computer Science has to offer.

I aim to excel in the field of Software Engineering and Cybersecurity and translate these skills into developing systems that would benefit the population, overcoming each challenge in a confident, and professional manner.

EDUCATION

National University of Singapore (NUS)	Expected Graduation: Dec 2022
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Bachelor's (Honours) in Computing: Computer Science	Aug 2020 – Current
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Bachelor's (Honours) in Engineering: Chemical Engineering	Aug 2019 – Jul 2020
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Cumulative Grade Point Average: 4.74 / 5.00

- Focus Areas: Cybersecurity, Software Engineering
- Switched majors after my first year due to career interests

Highlights:

- NUS Merit Scholarship
- Top 3 in NUS Greyhats x DSTA Welcome CTF Challenge, 2021
- Seeds of Good Programme: Project Innovation (Project Leader)
- Top 6 in CodeIT Suisse (Credit Suisse Coding Challenge, Individual), 2020
- Top 30% in DSTA Cyber Defenders Discovery Camp (CTF Competition), 2020
- Participated in Shopee Code League, 2020

Singapore Polytechnic (SP)

Diploma (with Merit): Chemical Engineering	Apr 2014 – May 2017
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Diploma Plus Programme: Applied Psychology	Apr 2015 – Sept 2016
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Cumulative Grade Point Average: 3.99 / 4.00

- Advanced Mathematics Programme; University Bridging Mathematics
- Participated in the World Cities Summit Shell Youth Dialogue, 2016
- Director's Honour Roll for Academic Year 15/16 and 14/15
- Singapore Chemical Industry Council Award, 2014
- Assisted in teaching and setting up various simulation programmes, i.e. Aspen HYSYS, EnVision Process

Highlights:

- A*STAR Science Award (Scholarship)
- Chemical and Life Sciences Club
- CCA Grade of GOLD with HONOURS
- Glaxo Wellcome Manufacturing Award, 2017
- Mendaki Annugerah Khas Award, 2017
- SINDA Excellence Award, 2017

PROFESSIONAL EXPERIENCE

TAIGER

May 2021 – Aug 2021

Software Engineering Intern under the Product Team

- Developed a new admin configuration feature in Omnitive's Semantics Search Engine - from refining the epic's user stories to proposing and implementing the required RESTful API endpoints, database structures and services
- Maintained codebase and cross-dependencies across multiple repositories and created automation scripts for product updates and releases
- Worked with: Java & Spring Boot, ELK (Elasticsearch-Logstash-Kibana) Stack, MySQL & MSSQL, Apache's Tomcat & JMeter

Institute of Bioengineering & Nanotechnology (IBN), A*STAR

Sep 2016 – Feb 2017

Intern in the Bio-devices and Diagnostics Department

- Worked under the company's Youth Research Programme
- Assisted in projects where macrocyclic compounds with elements of biomimicry hold potential in water purification; from the removal of toxic metal compounds as well as energy-efficient water filtrations
- Performed analysis of specific compounds, synthesising such compounds and performing evaluative tests

Duy Tan University (DTU), Danang, Vietnam

Mar 2016 – Apr 2016

Assistant under the Environmental Department

- Overseas Internship under Singapore Polytechnic
- Carried out research experiments using Water Hyacinth and Chlorella Vulgaris algae specimens
- Made recommendation on optimal conditions where such specimens can aid in water treatment within the community

VOLUNTEER EXPERIENCE

Project Innovation

Jan 2020 – Jan 2021

Project Leader

- Project Innovation aims to provide primary school children (aged 6 to 13) exposure to Information Technology using visual programming languages such as Scratch
- By introducing fun and engaging programming lessons out of their academic curriculum, this project aims to educate and instil in youths an appreciation of information technology
- Current role as project lead involves managing content curriculum as well as liaising with beneficiaries such as FaithActs

SKILLSETS / CERTIFICATES

Programming Languages: Python (Proficient), Java (Proficient), C (Merit), Bash (Merit), SQL (Merit)

- Harvard CS50's Introduction to Artificial Intelligence with Python (CS50X)
- The Cyber Assembly's Advanced Linux, Practical Cryptography, and Windows Server
- Nanyang Technological University's Certificate of Participation in Business Finance (PaCE)
- Hackwagon's Certificate of Distinction in DS101 – Introduction to Python Programming
- WSQ Certificate in Process Technology (Chemical Production)