

Mayaz Rakib

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SUMMARY

A results-driven and detail-oriented individual with a strong background in software development, cybersecurity and IT. Eager to utilise strong analytical skills to solve complex problems and implement innovative solutions.

WORK EXPERIENCE

SAS International

January 2022 – December 2022

Full-Time - IT & Logistics Officer

1 year

- Delivered extensive IT services, including network management, cloud services, help desk support
- Configured network infrastructure using routing, VLANs, and firewalls to optimize network security
- Monitored network traffic using Wireshark/Nagios to troubleshoot issues related to SNMP, DHCP, DNS, etc.
- Performed routine database backups and secured database environments with RBAC and TLS/SSL encryption
- Gained proficiency in various ERP, CRM and project management software e.g. Salesforce, SAP, Infor, Airtable
- Refactored outdated logistics system, facilitating 100,000+ units transferred within 6 months of implementation

TwoPi Code

January 2018 – March 2018

Internship - Software Development Intern

3 months

- Configured large-scale relational and NoSQL database systems e.g. MySQL, PostgreSQL, MongoDB
- Performed both front-end and back-end web development using TypeScript, ReactJS, ExpressJS, Django, etc.
- Deployed scalable cloud architecture on platforms e.g. AWS, Azure using various tools e.g. Docker, Kubernetes
- Worked through backlog tasks efficient using Python3 and BASH scripting
- Gained DevOps proficiency such as using CI/CD pipelines (e.g. Jenkins) and version control systems (e.g. Git)
- Implemented robust security protocols using encryption and multi-factor authentication standards e.g. OAuth2
- Performed basic network analysis using command-line tools e.g. traceroute, netstat, nmap, nslookup, tcpdump

EDUCATION

University of New South Wales

February 2021 – November 2024

B.Sc. Computer Science

Graduate

- UNSW Computer Science Society Mentor (educational seminars, workshops, etc.)
- UNSW Artificial Intelligence Society Director (large-scale team projects, marketing campaigns, etc.)
- Distinction in COMP1521 (Computer Systems Fundamentals), COMP3311 (Database Systems)

HONOURS & AWARDS

- 2nd Worldwide for International Zero Robotics Competition **November 2018**
- 3rd Place for UNSW Cupcake Programming Competition **September 2019**
- Australian Mathematics Competition (AMC) High Distinction (2 years) **July 2018, July 2019**
- 91.00 ATAR + Dux of Software Design & Development for HSC **December 2020**

PROJECTS

hlibc (<https://github.com/hlibc/hlibc/blob/master/LICENSE>)

- Re-implementation of the C standard library for the purpose of understanding low-level systems architecture and ensuring correctness through simplicity, similar to musl-libc
- Collaborated with UNSW and UPenn (University of Pennsylvania) students to implement functionality across multiple operating systems (Unix-like, Win32, OSX)
- Gained comprehensive knowledge of data structures and algorithms, as well as complexity analysis (e.g. Big O, amortized analysis) and performance optimization (e.g. caching, concurrency, batch processing, etc.)