

EDUCATION

National University of Singapore

Aug 2021 - Present

Bachelor of Computing, Information Security (Hons.)

- Grade Point Average (GPA): 4.60/5.00
- Coursework: Programming Methodology, Data Structures and Algorithms, Computer Networks
- Activities: 2022 Meta Global Hackathon (top 200)

EXPERIENCE

Merck Sharp & Dohme (MSD)

Jan 2023 - Jul 2023

Cloud FinOps Engineer Intern

- Architected and built Serverless, cloud-based FinOps automations to reduce AWS cloud spend incurred by unused Elastic Block Store (EBS) volumes - automations reduced the company's monthly cloud spend by ~\$1,000 USD.
- Developed FinOps automations using the AWS SDK for Python (boto3) and AWS Lambda.
- Utilized Infrastructure-as-Code (IaC) tools such as Terraform and AWS CloudFormation to consistently and efficiently provision resources in the AWS cloud.
- Worked with DevOps tools such as Git, GitHub, Jenkins and CloudBees CD. Familiar with DevOps methodologies and CI/CD concepts.
- Built a RESTful API using Power Automate to automate data extraction and data processing.
- Analyzed the company's monthly AWS cloud spend using cloud-based tools such as Amazon QuickSight and Amazon Athena, as well as SaaS tools such as Apptio Cloudability.
- Followed Software Development Lifecycle (SDLC) practices. Wrote and executed Systems Integration Tests/User Acceptance Tests before deployments to production.
- Enhanced workflows and improved communication skills by adhering to Agile methodologies as a part of a Scrum team.

TECHNICAL SKILLS AND KNOWLEDGE

- Languages: Python, Java, SQL, HTML/CSS, Bash
- Cloud: Amazon Web Services (AWS)
- DevOps: CI/CD, Git, GitHub, Terraform, Jenkins, CloudBees CD/RO
- Misc: Jira, Power Automate, Postman, Apptio Cloudability, Microsoft Excel
- Certifications: AWS Certified Solutions Architect – Associate, AWS Certified Security – Specialty

PROJECTS

Discord WordCloud (Python, Amazon Web Services (AWS), HTML/CSS)

- Built a cloud-based application to transcribe Discord call recordings and generate a word cloud from the call transcript.
- Developed the back end using the AWS SDK for Python (boto3), AWS Lambda and Amazon Transcribe.
- Created a static webpage to display the word cloud and its associated metrics. Hosted the webpage on Amazon S3.
- Performed CI/CD using CircleCI and Terraform.

Wordle Clone (Python)

- Created a clone of the popular game "Wordle" using Python and Tkinter.

Discord Moderator Bot (Python)

- Created a Discord Bot using Python and the Discord API to moderate chat messages and monitor member activities.

AWARDS AND SCHOLARSHIP

- International Biomedical Quiz 2018, Silver Medal
- CDC-CCC Education Merit Award (2018)

VOLUNTEER EXPERIENCE

National Day Parade 2019, Parade and Ceremonies Committee

Jun 2019 - Aug 2019

- Ascertained safety of hundreds of parade participants during NDP 2019 as a part of the parade safety team.

Singapore Children's Society (RoundBox), Mentor

Oct 2017 - Nov 2017

- Mentored and organized learning activities for a group of 24 at-risk children.

Moontent Camp 2017 (DADs For Life), Camp Counselor

Mar 2017 - Apr 2017

- Facilitated father-son bonding activities for participants of the camp.

EXTRA CURRICULAR ACTIVITIES

- Tennis: Competed in JC from 2017 to 2018
- Softball: Represented Secondary School from 2013 to 2016 in national inter-school competition, attained 2nd placing in 2014 to 2016 and 3rd placing in 2013

LEADERSHIP EXPERIENCE

- Crew Chief of Missile Crew during National Service; attained rank of Corporal First Class (CFC)
- Appointed as Class Chairman in Secondary 3 and Secondary 4
- Orientation Group Leader for the school's Secondary 1 Orientation Camp in 2016