Nuzul Firdaly

Software Engineer and Machine Learning Scientist

Agile, self-determined, autonomous, and energetic final year student, looking for opportunities to leverage and learn new experiences in building unique and emerging solutions, whilst sharing insights to solve problems that delight end-users. Eager to learn from more experienced engineers while sharing innovative ideas!

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EDUCATION

Diploma In Information Technology, AI Specialization

Nanyang Polytechnic

Apr 2020 - Ongoing

GPA **3.9** / 4.0

- **Founding member, Vice President** for content and internal affairs at **NYP AI** Initiated and managed events dedicated to teaching people the wonders of machine learning and AI
- Awarded distinctions for Data Structures & Algorithms and, Data Analysis & Visualization module
- Competed in AI competitions, hosted cloud workshop for AWS, and represented NYP in the Pre-University Seminar 2021
- Led and managed most school software development projects, applied design thinking, and agile practices
- Modules include: **Mobile Applications, UX Design, Market Research, Application Security, Advanced Programming, Robotic Process Automation, AI Application Project, Advanced Topics in AI**

Higher Nitec In Business Information Systems

Institute of Technical Education

2018 - 2020

GPA **3.7** / 4.0

- **Operations Intern** at Micro 2000, managed warehouse's logistics and supply, large-scale computer configuration across different schools
- Modules include: **Networking, System Administration, Virtualization, System Hardening, Enterprise System Administration, Database Management**

EXPERIENCE

Software Engineer, Part-Time

Nanobee | Nanobee.app

Nov 2022 - Ongoing

- Worked in conjunction with the business team to propose features relevant to the target market
- Built a web application MVP with **NodeJS**, **ExpressJS**, **Firebase** and **Handlebars**
- Developed and proposed an **experimental chatbot** with DialogFlow and deployed it to telegram to accelerate business acquisition and business process
- Developed and proposed **content based recommendation system** using miniLM-L6
- Manage **Integration** on GitHub and **Deployment** on **Google Cloud**

FinTech Intern

Monetary Authority of Singapore, FinTech Innovation Group (FTIG) , Fintech Ecosystem Office (FEO)

Mar 2022 - Aug 2022

- Engaged with local and overseas **VC** firms, **FinTechs,** and **Financial Institutions** to facilitate collaboration in the FinTech ecosystem.
- Entrusted to onboard new interns
- Worked alongside FSDF to assess projects to award the Digital Acceleration Grant (DAG) under the FSTI Scheme
- Researched and documented trending digital solutions and assessed start-ups
- Developed a dashboard to analyse grant performance and solution usage.

Natural Language Processing (NLP) Research Intern

SenticNet, Nanyang Technological University

Mar 2022 - Aug 2022

- Nominated to work along Post-Graduates from NTU in the NLP field
- Documented and researched current SOTA NLP models.
- Scraped over 2 million tweets using **SNSscrape**
- Preprocessed, analyzed tweets, and created a topic modeling algorithm using LDA to classify tweets on different topics regarding COVID-19

Technology Used: **Gensim, pyLDAVis, Spacy, sklearn**

VOLUNTEERING

Buddy Carnival

- A initiative aimed to promote interaction between public with the special needs community
- **Founded and Led** discussion and meetings whilst documenting planning and process
- **Established and communicated** with stakeholders and community partners
- **Managed** 12 members in different departments across different tertiary institutions and delegated roles and tasks
- Had over 50 attendees, all of whom reported they enjoyed the event

SKILLS

Programming

Python, SQL, .NET, Swift, Kotlin, JavaScript, C#, Object Oriented Programming

Data Science and Analytics

Tableau, Sci-Kit Learn, NumPy, TensorFlow, Keras

Soft-Skills

Leadership, Communication, Flexibility, Confidence, Problem Solving, Self-management

INTERESTS

- Start-Ups
- Community
- Consulting
- Artificial Intelligence
- Management
- Finance

AWARDS

NYP Scholarship
Awarded to students with good discipline, exemplary character, outstanding academic result and strong passion

Director's List for all semesters
Awarded to top 15% of students in the cohort each semester.

ITE Community Scholarship
Awarded based on academic, merit, good track records in co-curricular activities, leadership qualities and special talents

Certificate of Recognition for Best Speaker at DPP Student Conference
Presented on the argument of Overpopulation to 130 students

Certificate of Appreciation for Winning GOLD at IEYI
Proposed MyBio, a proof of concept medical services ordering systems aim to increase efficiency on lab tests through the use of an application at the International Exhibition for Young Inventors 2018

> Technology is an inherent democratizer. Because of the evolution of hardware and software, you're able to scale up almost anything. It means that in our lifetime everyone may have tools of equal power
>
> -Sergey Brin