

# **GUCON Nailah Ginylle Pablonia**

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## **PERSONAL INFORMATION**

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**Citizenship:** Singapore Permanent Resident

## **EDUCATION**

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### **Nanyang Technological University, Singapore**

Aug 2020 – Dec 2023 (Expected)

#### **Bachelor of Engineering (Computer Science)**

- Recipient of the ASEAN Undergraduate Scholarship
- Relevant Modules: Data Structures & Algorithms, Introduction to Data Science & Artificial Intelligence, Algorithm Design & Analysis, Object Oriented Design & Programming, Software Engineering, Introduction to Databases, Artificial Intelligence, Intelligent Agents, Information Retrieval

### **Nanyang Polytechnic, Singapore**

Apr 2017 – Mar 2020

#### **Diploma in Multimedia and Infocomm Technology**

##### **Specialization: Infocomm Solutions**

- Diploma with Merit, CGPA: 3.94/4.00
- Recipient of the Choo Lim Scholarship
- Recipient of Cisco Systems (USA) Outstanding Project Work (Special Graduation Award)
- Top Student Award for 1 semester
- Directors' List for all 6 semesters
- Achieved Distinction in: Object-Oriented Programming, Database Fundamentals, UX Design for Multi-Devices, Operating Systems, Internet Programming, Internet of Things Development
- Relevant Modules: Programming Methodologies & Practices, Internet Application Development, Web Design & Development, Open-Source Web Solutions Development, Database Design & Implementation, Software Engineering Practices, Java Enterprise Development, Mobile Application Development, Web 2.0 Application Development

## **ACADEMIC PROJECTS**

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### **Nanyang Technological University, Singapore**

#### **Software Engineering Project**

Sep 2021 – Oct 2021

##### **Title: Outhink Itinerary Planner**

- Spearheaded a team of 5 to develop an Android mobile application that presents an accumulation of various Singapore tourist's attractions for users' perusal and assist them in planning a one-day itinerary plan while ensuring on-time delivery of lab deliverables that's in-line with the module requirements; Achieved an A for the module
- Collaborated with team members to design the application's Dialog Map and 3-Tier System Architecture; Documented the Software Requirements Specification Document, most notably the Functional & Non-functional Requirements, User Acceptance Tests (Black & White Box Testing) and User Manual; Programmed the Itinerary page of the mobile application that generates a one-day itinerary plan for the user based on their pre-determined tourist attractions selection and time frame given

#### **Data Science Project**

Mar 2021 - Apr 2021

##### **Title: TMDB Genre Prediction Mini Project**

- Collaborated with a team of two to develop and compare various prediction models for movie genres based on movie overviews.
- Conducted data acquisition, cleaning, and visualization to identify factors that improve the accuracy of the model.
- Implemented a multi-label classification model using Natural Language Processing (NLP) to cater to movies that span multiple genres.

#### **Information Retrieval Project**

Mar 2023 - Apr 2023

##### **Title: WebMaster Search Engine (Data Crawling Role)**

- Collaborated with a team of five to develop an informal retrieval search engine for retrieving information on hotels and eateries from the TripAdvisor website.
- Implemented web crawling code using Python Selenium for dataset acquisition and the search engine interface.

## PERSONAL PROJECTS

### NUS IDEATE 2021 Competition

Jul 2021 - Aug 2021

#### Title: StackLah! Mobile Application Prototype

- Lead and performed requirement analysis of business problem and developed a mobile application prototype using Framer which utilizes Near-Field Communication for rental carts in supermarkets to reduce the use of plastic bags

### Samsung Solve For Tomorrow Competition

November 2022 – Present

#### Title: Plativity Mobile Application Prototype

- Team Leader of Finalist Team (Top 5 of University Category)
- Developed a gamified productivity mobile app prototype using Figma that combines to-do lists with a collectible card game, with task prioritization automation, and customizable virtual productivity buddies.

## WORK EXPERIENCE

### Central Provident Fund Board (CPF Board)

May 2022 – Dec 2022

#### RPA Team in Business Incubator & Accelerator Department, RPA/IPA Intern

- Developed Python scripts for data migration, reducing manual data entry time for CPF Board Service Center Officers.
- Created data visualization charts and tables in Excel for COVID-19 tracking in a CPF Board use case.
- Collaborated with another intern to develop a booking system app for a CPF Board Use Case using Power Apps and Power Automate. Designed and implemented features that prevent scheduling conflicts, enable staff nomination, and allow for recurring bookings. Developed statistics pages to visualize app usage and staff productivity.
- Assisted with UiPath trainings by addressing trainees' technical issues and clarifying doubts.
- Designed promotional materials, including posters, items, and PowerPoint slides using Canva, for company visits and product showcasing.

### Klass Engineering and Solutions Pte Ltd

Aug 2019 – Sep 2019

#### Product Creation Team for Edge Analytics, Software Engineer

- Implemented enhancements for a web-based configuration utility during my internship.
- Created development and user guides for the web-based configuration utility using Markdown.

### Klass Engineering and Solutions Pte Ltd

Mar 2019 – Aug 2019

#### Product Creation Team for Edge Analytics, Software Engineer Intern

- Independently developed a web-based configuration utility using Django, Python, and SQLite to aid in the configuration of an application on NVIDIA's Jetson TX2, giving authorized users an easy platform to manipulate device configurations and view important device details.
- Trained and tested an object detection dataset using Darknet to improve the accuracy of the YoloV2 model.
- Designed promotional items for the company's attendance at career fairs using Adobe Illustrator and GIMP.

## CO-CURRICULAR ACTIVITIES

### Nanyang Technological University Open Source Society

Aug 2020 – Present

#### Member

- Actively participated in events to learn more about different open source technologies and career opportunities

### Nanyang Polytechnic's Community Service Club

Apr 2019 – Apr 2020

#### Executive Committee Member

- Organized and executed outreach events for special needs, children & the elderly
- Active role in designing the promotional posters for the club's outreach events

### Nanyang Polytechnic's School of Engineering Student Advocacy Club

Apr 2019 – Apr 2020

#### Logistics Head of Executive Committee

- Handled logistics and finances of club's freshman induction camp
- Involved in the execution of inter-school and outreach events for secondary schools

## SKILLS

**Languages:** Proficient in English

**Programming:** Python, SQL, Power Platform (Power Apps, Power Automate), HTML, CSS, JavaScript, Java, Node.js, C, UiPath, Tableau

**Software Applications & Frameworks:** Adobe Illustrator, Adobe Premiere Pro, Microsoft Excel

**Other Skills:** Zoom, Microsoft Teams