

## Izzat Fadzlon

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### EDUCATION

#### Nanyang Technological University (SCTP)

Nov 2023 – Current

##### Software Engineering

- The SCTP in Software Engineering equips students with fundamentals of web development, hands-on projects with front-end and back-end web frameworks as well as containerization methods and mobile development.

#### Nanyang Technological University

Aug 2018 – Aug 2022

##### Mechanical Engineering (Robotics and Mechatronics Stream)

- CGPA 4.27/5.00
- Relevant modules: Intro to Computational Thinking, Robotics, Mechatronics System Interfacing, Realtime Software for Mechatronic Systems, Mechatronics Engineering Design, Data Science and Artificial Intelligence, Machine Learning

### SKILLS AND TOOLS

- **Skills:** HTML, CSS, Python, Java, C, C++, React, GIT, JavaScript, OOP, Agile, Arduino, REST API, Spring, Maven, Springboot, Hibernate, Postgres, React Native, PostgreSQL, Mockito, Testing, Scripting, Scrum, CI/CD, Linux, Data Structures and Algorithms
- **Tools:** VS Code, Confluence, JIRA, Blender, Github, Docker, CircleCI, ROS, Jenkins

### PROJECTS

#### Personal Projects

##### ParkNow (<https://github.com/kiblykat/ParkNow>) (React, CircleCI, Jest, REST API)

Jan 2024 – Mar 2024

- Developed a React application to display real-time parking availability data for public parking lots.
- Utilised Chakra UI to build a user-friendly and responsive web interface for efficient data visualization.
- Integrated Google Maps API to provide a convenient map-based view of parking locations, enhancing user experience.
- Retrieved real-time parking data from a data.gov publicly listed API, ensuring data accuracy and relevance.
- Implemented a mock API for data persistence, simulating real-world data storage solutions.

##### TheReviewRoom (<https://github.com/kiblykat/TheReviewRoom>) (SpringBoot, Mockito, Docker, CI)

Mar 2024 – Apr 2024

- Designed and implemented RESTful APIs using Spring Boot for CRUD operations.
- Utilised JPA to interact with a relational database for data persistence.
- Included CI workflow with Docker and CircleCI to automatically containerize and deploy the application on commit.

##### SteamBot (<https://github.com/kiblykat/steamBot>) (Javascript, Web Scraping)

Dec 2022 – Mar 2023

- Designed a fully automated bot using Javascript and Steam APIs that automatically adds and trades with users.
- Implemented real-time currency tracking using APIs to ensure accurate information and autonomous trading decisions.
- Achieved a 50% profit in 1 month of running the bot from trading with public Steam users.
- Scraped steam store prices using Beautiful Soup library to automate updating of pricelist

#### University Academic Projects

##### ScrappyBot (<https://github.com/kiblykat/ScrappyBot>) (C, C++, Realtime, Arduino)

Jan 2022 – May 2022

- Led software development for a competition robot, utilizing C to implement a multi-threaded control system.
- Designed logic for real-time obstacle detection, path planning, and object manipulation.
- Implemented algorithms for boundary detection, collision avoidance, and autonomous navigation.

### WORK EXPERIENCE

#### Software Engineer, Continental Automotive

July 2022 – Current

- Development of new features through object-oriented programming while conducting unit test validation through GoogleTest using C/C++.
- Debug complex software issues from test tickets, utilizing tools such as Visual Studio Code to diagnose and resolve bugs.
- Developed a Python Script to improve build process (Python, Scripting, File Management, Automation)
- Automated build synchronisation process, eliminating human errors and raising efficiency by 2000%
  - Streamlined Workflow: User-friendly interface simplified folder selection and build variant(customer) choice.
  - Script adopted by multiple cross-regional departments based in Timisoara and Germany.

#### Coding Instructor, DUCK Learning

April 2022 - July 2022

- Designed and delivered interactive coding lessons for primary school students (ages 6-9), utilizing effective instructional methods to break down complex coding concepts into easily understandable steps.

#### Robotics Software Intern, Transforma Robotics

May 2021-Sep 2021

- Interfaced LiDAR sensors and built upon open-source ROS middleware to create a service and action server.
- Spearheaded the first prototype of a parking algorithm using relevant vector manipulation concepts to design a robot guidance system to align the WAHPR robot prior to painting.

### AWARDS AND ACHIEVEMENTS

#### Dean's List, Nanyang Technological University

Jul 2020 - Jul 2020

- Achieved top 5% of cohort with a GPA of 4.80 for AY2020-2021.

#### James Dyson Award National Runner Up (Singapore)

Jul 2022 - Sept 2022

- Recognized as a Singapore National Runner Up 2022 for the vertical farm deployment with Amplefresh.