Muhammad Fathy Rashad Computer Engineer

All Projects are linked on website mfrashad.github.io



Software Engineer Intern (Backend) | Fave

May 2018 - August 2018

Ruby - Rails - PostgreSQL - AWS EC2

- Fixed various bugs and refactored a large Rails app.
- Automated PDF report generation which saved 3+ days of work monthly.
- Wrote unit tests for Rails application.
- Developed a new Promo Code feature for an Admin Dashboard.
- Worked in Agile environment.
- Used various tools/services such as Jira, Sentry, CircleCl and AWS.
- Youngest intern at 17 years old.

Freelance Developer | Self Employed

September 2018 - Ongoing

Jekyll - Wordpress - Rails - Arduino

- Worked with a web agency to develop e-commerce websites.
- Developed landing pages using JAM stack (Jekyll).
- Built a website with a custom CMS using Rails for a non-profit organization.
- Programmed a platooning vehicle robot using Arduino.

Mobile Developer (Part-Time) | Universiti Teknologi Petronas

September 2019 - Ongoing

JavaScript ES6 - React Native

- Developed a mobile app iOASIS for UTP library with React Native.
- The app is available in Playstore and widely used by UTP students and staffs.
- Integrated the mobile app with existing UTP systems.

Projects

Bustime | Live Bus Tracking App

JavaScript ES6 - React Native - Firebase - Google Maps API - Pusher

Bustime is a mobile app made with React Native that provides real-time location, route, and ETA of buses by tracking the driver phones. Google Maps API is used for geolocation, map display, and time estimation, Firestore for database, and Pusher for real-time updates.

Istaid Website | Custom CMS

Ruby - Rails - PostgreSQL - AWS EC2

A blogging website made from scratch using Ruby on Rails with a custom made Content Management System (CMS). The website is made for a non-profit organization ISTAID (Islamic Thought and Information for Da'wah).

Dot Hit | 2D Android Mobile Game

C# - Unity3D

Dot Hit is a casual mobile game made with Unity3D game engine and have 100+ installs in Google Playstore.

Aide Glass | Smart Glasses for Hearing Impaired

Python - Raspberry Pi - Firebase - Google Cloud Speech API

Aide Glass is a smart glasses that transcribe surrounding conversation using speech recognition technology to help the hearing impaired communicates.

Autonomous Quadruped Robot | Robocon Malaysia 2019 C/C++ - Arduino - Circuitry

A 3D printed autonomous quadruped spider robot capable of walking, turning, and climbing obstacles made for Robocon Malaysia 2019. PID algorithm is used in the control system.

Contacts

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mfrashad.github.io

Skills



















React

HTML5

JavaScript

CSS3

Mobile Development



React Native



Unity3D

Embedded Development









Raspberry Pi

Arduino











Pvthon

AWS

Design







Photoshop

Xd

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Universiti Teknologi Petronas | CGPA 3.72
 Bachelor of Engineering (Hons) Computer Engineering
 September 2017 - September 2021
 Dean's List in all semesters.

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Competitions

■ APU Battle of Hackers 2019 | Rank 9, Finalist

Asia Pacic University - September 2019

Led and mentored 2 students to participate in an intervarsity cybersecurity Capture The Flag competition as UTP representative. Managed to rank 9 out of 50+ teams in Malaysia.

Reboot the Earth Hackathon | Finalist

UN Technology Innovation Labs - August 2019

Developed a prototype of Zed.ai, an out of the box Al solution dedicated to combat against climate change. Zed.ai enables unskilled individuals to use robust Al tools against climate change.

● Al and Big Data Challenge for Data Engineer | Top 20

Asean Data Analytics Exchange - April 2019

Developed SNAP, a dashboard Rails application that predicts product sales and gives recommendation on asset management using linear regression.

3 Days of Code | Top 5 Finalist

Multimedia University - April 2019

Built a working prototype of Bustime, a real-time bus tracking app that provides live location, routes, and time arrival of buses to the users by tracking the bus driver's phone.

Robocon Malaysia 2018 | Top 16 Team

Universiti Tenaga Nasional - April 2018

Participated as the main programmer for UTP Petrobot Team. Programmed an autonomous line following robot with PID control and capable of receiving and throwing a ball through a 3m hoop.

Activities

Founder & President | UTP App Dev Club

2019 - Ongoing

Led a group of students to build applications, organized workshops to learn essential technical skills outside of the class syllabus, and participate in competitions.

Tech Manager | DSC UTP

2019 - Ongoing

Founding member of UTP Developer Students Club (DSC), a program by Google Developers for university students. Built the official website, spoke for several workshops, and handled technical tasks of the club.

Technical Crew | UTP Petrobot Club

2017 - Ongoing

Participated in robotic competitions, projects, and industrial visits. Conducted workshops and mentored new members in robotic projects.

Volunteer Experience

Head of Media | Agricultural IoT Garden

August 2019 - Ongoing

Built a hydroponic garden with an IoT monitoring system for a local school in Perak. Designed T-shirt, flyers, and delegated other design tasks to committees.

• Mentor & Speaker | Raspberry Pi Workshop

Septemper 2018

Presented and mentored participants about Raspberry Pi. Guided them from installation and setup to a finished project of a telegram bot controlled LEDs.

• Asst. Head of Design | Children Provision Charity

January 2018 - May 2018

Designed various posters, helped in task delegation and managing other committees, and coordinated with other departments to complete tasks.

Languages English - Professional Working Proficiency Malay - Native or bilingual proficiency Indonesian - Native or bilingual proficiency

