MUHAMMAD FATHY RASHAD

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WORK EXPERIENCE

Mobile Developer (Part-Time)   Universiti Teknologi PETRONAS   **07/2019 – 10/2019**
- Developed a mobile app iOASIS for UTP library using React Native.
- Won gold and diamond award in 4th International Innovation & Design in Library & Information Science Competition.
- Leveraged knowledge in **JavaScript ES6, Git, and React Native**.

Freelance Developer   **09/2018 – Present**
- Worked together with a web agency to develop 3 e-commerce websites.
- Developed 3 static websites using Jekyll and 4 mobile apps using React Native for businesses and individuals.
- Built a blogging website with customized CMS using Rails for a non-profit organization, ISTAID.
- Leveraged knowledge in **Ruby on Rails, Docker, Jekyll, Git, WordPress, React Native, HTML, CSS**.

Software Engineer Intern   Fave (Groupon)   **05/2018 – 08/2018**
- Fixed various bugs, wrote unit tests and refactored a large Rails app.
- Automated PDF report generation which saved 3-5 days of work monthly.
- Developed a promo code feature for Rails admin dashboard which increased number of new users.
- Leveraged knowledge in **Ruby on Rails, Git, PostgreSQL, AWS, CircleCI, Sentry, JIRA and Agile (Kanban)**.

EDUCATION

Universiti Teknologi PETRONAS (UTP)   B. E. Computer Engineering (Hons)   **09/2017 – Present**
- Dean's List (all semesters). CGPA: 3.72/4.00. Expected graduation: September 2021

LEADERSHIP

Founder & President | UTP App Development Club   **07/2019 – Present**
- Conducted **Git & React Native workshops** for mobile app development and wrote **CTF write ups** with 500+ views.
- Led and mentored members in **CTF cybersecurity competition** and ranked 9 out of 60+ teams.

Tech Manager | DSC UTP   **09/2019 – Present**
- Co-founded Developer Student Club branch in UTP, a university program by **Google Developers**.
- Built the official website and facilitated **Git and GCP workshops**.

PROJECTS

Personal Website: *www.mfrashad.com* (for additional information and projects)

Live Bus Tracking App | JavaScript ES6, React Native, Firebase, Google Maps API, PubNub
- Provides real-time location, route and time arrival estimation of buses by tracking the driver's phone.
- Top 5 app in 3 Days of Code hackathon.

Transcribing Smart Glasses for The Deaf | Python, Raspberry Pi, Firebase, React Native, Google Speech API
- Built a detachable device that transcribes surrounding conversation to help the deaf communicates.
- Developed a mobile app that shows transcription history and provides language selection using React Native.
- Won Chairman's Award out of 160 teams in 42nd Science & Engineering Design Exhibition.

Autonomous Line Following Catapult | C, Arduino, PID control system
- Programmed an autonomous line following robot that can throw a ball into a 3 meters tall hoop.
- Top 16 teams out of 50+ teams in Robocon Malaysia 2018 competition.

Cube Runner (Android Game) | C#, Unity3D
- Optimized the game performance by applying object pool design pattern and generating levels procedurally.
- Achieved 1900 installs and an average rating of 4.46 in Google Play Store.

SKILLS

Languages: (proficient): **Python, JavaScript, Ruby, C, HTML/CSS;** (familiar): **SQL, Java, Scala, R, Bash, MATLAB, C#**
Others: (proficient): **Linux/Unix, Git, Rails, React Native;** (familiar) **AWS, GCP, Docker, CI/CD, Node, Express, Unity3D**