

# MUHAMMAD FATHY RASHAD

## COMPUTER ENGINEERING

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### Education

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**Universiti Teknologi PETRONAS | B. E. Computer Engineering (Hons)** **09/2017 – Present**

- CGPA: 3.74/4.00. Graduation: 09/2021. Dean's List (all semester).

### Work Experience

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**Computer Vision and Deep Learning R&D Intern | ViTrox** **06/2020 – Present**

- Working on a new automated machine learning platform for board visual inspection.
- Developed a new reporting dashboard to visualize model performance.
- **Tech Stack:** PyTorch, Tensorflow, Django, Angular, TypeScript, Docker, Kubernetes, GitLab

**Mobile Developer (Part-Time) | Universiti Teknologi PETRONAS (UTP)** **07/2019 – 10/2019**

- Increased the number of library users by developing a mobile app for the UTP library.
- Won gold & diamond award in 4th International Innovation & Design in Library Competition.
- **Tech Stack:** JavaScript ES6 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.
- **Tech Stack:** Ruby on Rails, Bash, Jekyll, JavaScript, React Native, Python, HTML/CSS, Stripe API.

**Software Engineer Intern | Fave (Groupon)** **05/2018 – 08/2018**

- Fixed various bugs, wrote unit tests, and refactored a large Rails app.
- Saved 3-5 days of work monthly by automating PDF report generation and distribution.
- Increased the number of new users by developing a promo code feature as an incentive for new users.
- Youngest employee at 17 years old.
- **Tech Stack:** Ruby on Rails, PostgreSQL, AWS, ElasticSearch, CircleCI, Sentry, JIRA, Linux/Unix

### Leadership

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**Founder & President | UTP App Development Club** **07/2019 – Present**

- Conducted Git & React Native workshops for mobile app development and wrote CTF write-ups with 1K+ views.
- Led and mentored members in hackathons and cybersecurity competitions.

**Tech Lead | DSC UTP by Google Developers** **09/2018 – Present**

- Led the technical team, wrote Flutter tutorials, and organized Git, Flutter, and GCP workshops.

### Awards & Certification

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- Microsoft Certified: Azure AI Engineer Associate
- Best Open Source Project on GitHub's Award out of 292 participants globally in the Local Hack Day: Share competition.
- First Runner Up nationwide in iUM Hackathon 2020.
- 2nd Place nationwide in DSC Kita Hack 2020 by Google Developers.
- Chairman's Award out of 160 teams in the 42nd Science & Engineering Exhibition.
- Ranked 9 nationwide in varsity APU Battle of Hackers 2019 CTF (Capture The Flag) cybersecurity competition.

### Projects | [www.mfrashad.com](http://www.mfrashad.com)

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#### PhotoSketch

- Built a game prototyping tool app that transforms hand-drawn sketches to playable games using OpenCV.
- **Tech Stack:** Python, OpenCV, Flask, JavaScript ES6, React Native, Firebase

#### Live Bus Tracking App

- Built an app that provides real-time location, route and time arrival estimation of buses by tracking the driver's phone.
- **Tech Stack:** JavaScript ES6, React Native, Firebase, Google Maps API, PubNub

#### Transcribing Smart Glasses for The Deaf

- Led a team to build affordable smart glasses that transcribes surrounding conversation to help the deaf communicate using 3D printing and speech recognition accompanied by a mobile app.
- **Tech Stack:** Python, Raspberry Pi, Firebase, React Native, Google Speech API