



# Pahlwan Rabiul Islam

[abirpahlwan@gmail.com](mailto:abirpahlwan@gmail.com)

[+8801521107487](tel:+8801521107487)

[linkedin.com/in/pahlwan](https://linkedin.com/in/pahlwan)

[github.com/abirpahlwan](https://github.com/abirpahlwan)

[pahlwan.tech](https://pahlwan.tech)

[Rajuk Uttara Apartment Project, Uttara, Dhaka](#)



## WORK EXPERIENCE

### Software Engineer | Metamorphosis Ltd.

Metamorphosis consists of top Odoo ERP consultants, and it is the leading Odoo Silver Partner from Bangladesh.

APR, 2025 – PRESENT

- Developed HR App, connected to Odoo as backend. Integrated Odoo features, Role based login and access, Attendance, Leave management etc.
- Providing enterprise-level customer support, Odoo system upgrade.
- Streamlining company operations. Bridging business needs and prioritizing engineering tasks. Coaching team members on Software Development Lifecycle and engineering best practices.
- LiveOps, DevOps, SDLC, Business Development.

### Lead Software Engineer | Hootum IT Services Ltd.

Hootum is a startup working with blockchain technology to bring out NFT marketplace for creators and collectors in Bangladesh.

DEC, 2023 – MAR, 2025

- Leading the software development team, doing scrums, oversee development, release and maintaining cloud services.
- Research & Development for Blockchain based trading platform.

### Technical Project Manager | Zufaa Inc.

Zufaa Inc is a digital content and marketing company based in Brooklyn, New York.

OCT, 2022 – JULY, 2023

- Project requirement analysis and technical documentation.
- Team building, co-ordination and adapting team to Slack & JIRA.

### Software Engineer/Game Developer | Ulka Games Ltd. / Moonfrog Labs

Focus of Ulka Games is on Mobile and Instant games. Ulka Games is a subsidiary of Moonfrog Labs/Stillfront Group.

JUN, 2020 – JUL, 2022

- **Ludo Club**
  - Online multiplayer version of the hit dice game Ludo. 5M+ DAU.
  - NodeJS micro-services with Unity3D and Cocos frontend.

### Freelance Unity Developer | Activation Ltd.

Activation Ltd is an IT solutions company with over 8 years of experience in core business automation through software and integrated hardware.

OCT, 2019 – MAR, 2020

- **Live Art:** Augmented reality e-commerce app for artists and collectors based in UK.

## Senior Developer/Tech Lead | Dreamerz Lab Ltd.

Dreamerz Lab Ltd. is a startup offering services on mobile application development, web development, augmented reality-based app, virtual reality-based simulations & game development.

APR, 2018 – JUL, 2019

- Augmented Reality app for furniture placement, automobile configuration, architectural visualization, selfie with celebrities, e-commerce for artists, portal for tourists, medical education
- Virtual Reality app for interior painting, immersive video, interactive video walkthrough
- Technical design documentation, programming style guides, business model development

## Software Lead | AIUB Robotic Crew

AIUB Robotic Crew is a team of university students competing in international robotics championships.

SEP, 2016 – MAR, 2017

- Rover Control Software
- Video Streaming
- Stability Control & Feedback
- Rover Automation with Image Processing
- Wireless Communication



## EDUCATION

### MSc, Computer Science | American International University-Bangladesh (AIUB)

JAN, 2020 – DEC, 2020

Concentrated on Artificial Intelligence, Machine Learning and Natural Language Processing.

- Intelligent Systems
- Hand Gesture Recognition

### BSc, Computer Science and Software Engineering | American International University-Bangladesh (AIUB)

JAN, 2014 – DEC, 2017

Concentrated on Android App Development, Web Development, Image Processing and Virtual Reality.

### BSc, Mathematics | Shahjalal University of Science & Technology, Sylhet

JAN, 2013 – DEC, 2013 (DISCONTINUED)

Studied Introductory Calculus, Statistics & Probability.

### HSC, Science | Gazipur Cantonment College, Gazipur

DHAKA BOARD, 2012

GPA 5.0

### SSC, Science | BARI High School, Gazipur

DHAKA BOARD, 2010

GPA 5.0



## TECHNICAL SKILLS

### Platforms

- Amazon Web Services, Digital Ocean, Google Cloud Platform
- Ubuntu, Linux Mint, WSL2

### Languages

- JavaScript, Python, PHP, C#

### Frameworks

- Node.js, Laravel
- Odoo, Django
- ARCore, ARFoundation
- OpenGL, OpenCV, NumPy, SciPy
- Express, React, NextJS, Three.js, p5.js, MedusaJS
- Ethereum, Solidity, Hardhat
- Firebase, Supabase, PocketBase
- Tensorflow, NLTK, Ollama

### Tools

- WebStorm, Android Studio, PyCharm, Rider
- Unity3D, Cocos
- Git, JIRA, Notion, Slack, Linear
- Microsoft Office (Word, Excel, PowerPoint)
- Adobe Suit (Photoshop, Illustrator, XD, After Effects)
- Prezi, Blender, FreeCAD, Canva, Figma, draw.io
- Visual Studio Code, Cursor, Sublime Text

### Database Systems

- PostgreSQL, MongoDB, MySQL, SQLite, Firebase

### Embedded Technologies

- Chainway SDK, Android App Development, Flutter, Raspberry Pi

### Others

- System Architecture Design, CI/CD, Design Patterns, Data Visualization, Image Processing, Rapid Prototyping



## SOFT SKILLS

- Excellent verbal and written communication skills
- Self-motivated, inborn curious and always willing to learn new things
- Independent, self-sufficient and compulsive problem solver
- Collaborative worker, good at identifying strength & weakness in team



## ACHIEVEMENTS

- **Finalist (2017) | University Rover Challenge**  
URC2017 Finals at Mars Desert Research Station, Utah, USA
- **Finalist (2017) | NASA International Space Apps Challenge**  
NASA Space Apps Challenge Hackathon, Bangladesh
- **Champion (2015) | IT Noesis Quiz**  
Dhaka University IT Society 4th National Campus IT Fest



## PROJECTS

- **Our Gazipur**  
Android app for local community to report and complain issues with city corporation
- **24x7 Live Streaming Server**  
YouTube live video streaming 24x7 (Ant Media Server, Google Cloud Platform)
- **letShop**  
Android App for E-commerce website (**Java, SQLite**)
- **AIUB Community for Teachers & Students**  
Social networking website with messaging and discussion feature (**PHP, MySQL, AJAX**)
- **Orange HRM [Report module]**  
Human Resource Management System (**C#, .Net, WPF, MSSQL Server**)
- **Woord**  
Word matching game (**Java swing**)
- **Coin Seeker**  
Multiple stage adventure as well as coin collection game (**C++, OpenGL**)
- **Wreck It Bashir**  
'Fix It Felix' like; two persons smashing and fixing game (**C++, OpenGL**)
- **e-Sheba**  
Bangladesh government's all online services in one single app (**PhoneGap, HTML, CSS, JS**)
- Hobby/Others
  - **Encrypt It** – End to end text encryption, decryption (**Java swing**)
  - **Spooder-Pal** – Spider-Man throwing web & jumping around in a procedurally built city (**C++, OpenGL**)
  - **Dreamy Nights** – Particles flowing around; screen-saver for windows (**C++, OpenGL**)
  - **TwitterBot** – Posts media and instant replies on follow using Twitter API (**Processing, Node.js**)
  - **VRVis** – Data Visualization in Virtual Reality (**C#, Unity3D**)



## ACADEMIC RESEARCH WORKS

- **Deep Learning based 3D Hand Gesture Recognition and Tracking in Real Time**
  - Hand gesture recognition & tracking points of fingers in real time using MediaPipe.
  - Proposed solution to implement in Unity3D, Mobile AR and Oculus VR.
- **Rotation Invariant Visual Tracking of Six Degrees of Freedom Using Extended Kalman Filter for X-Reality.**
  - HMD localization using smartphone camera in the VR application to eliminate sensor drift.
- **3D Painting Using Inertial System and Monocular Vision for Localization of Handheld Controller in Virtual Reality.**
  - Virtual Reality project involving MEMS Sensors, Signal Processing and Computer Vision.
  - **Published** at International Conference on Internet Technologies and Society (ICITS), 2018.
- **An Analysis on Position Estimation, Drifting and Accumulated Error Accuracy During 3D Tracking in Electronic Handheld Devices.**
  - A review paper researching to formulate algorithm providing more accurate position estimation with amount of drift error minimized.
  - **Published** at Journal of Computer and Communications (JCC), 2018
- **Bengali Literature Preservation with Optical Character Recognition Approach.**
  - Proposal of project with image processing methodology for making it possible to preserve Bengali literature in non-destructive textual format rather than document images.
- **Hybrid Approach for Segmentation of Query from Document.**
  - A study aimed for proposing a hybrid text segmentation method from document images based on the query word provided.



## INTERESTS

- Human Computer Interaction, Psychology, Human Enhancement
- UI/UX, Product Design
- AI, Robots, Drones, Space
- Movies, TV Series, Film-making, Photography
- Music (Guitar, FL Studio)
- Philosophy, Political Economics



## SOCIAL & VOLUNTARY ACTIVITIES

- World's longest Road Painting at SUST – March, 2013
- Volunteer for Bangladesh, Universal Children's Day – November, 2010