

Kholipha Ahmmad Al-Amin

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Nationality: Bangladeshi



Professional Summary

Highly motivated Computer Science professional specializing in AI-driven image enhancement, immersive Unreal Engine game development, and modern web solutions. Proven ability to deliver innovative, high-impact projects, including AI image restoration, secure blockchain applications, and engaging UI/UX designs. Passionate about leveraging cutting-edge technology to drive digital transformation and achieve measurable results.

Education

- Jan 2022 – Aug 2026 (Expected) **Bachelor of Science in Computer Science & Engineering**, Atish Dipankar University of Science & Technology, Dhaka, Current CGPA: 3.56 / 4.00
Relevant Coursework: Data Structures, Algorithms, AI, Machine Learning, Web Development, Game Design.
- Jul 2020 **Higher Secondary Certificate (HSC)**, Adamjee Cantonment College, Dhaka, GPA: 5.00 / 5.00
Group: Science
- Apr 2018 **Secondary School Certificate (SSC)**, Civil Aviation School & College, Dhaka, GPA: 5.00 / 5.00
Group: Science

Technical Skills

- Program-
ming** Python, C++, Java, JavaScript, C#, SQL, HTML5, CSS3, PHP, Swift, Kotlin, Dart, Go
- AI & ML** Machine Learning, Deep Learning (PyTorch), Generative AI (Amazon Bedrock), Computer Vision, Image Processing, Data Visualization
- Web Devel-
opment** Full-Stack Development, Node.js, React, Angular, Vue.js, Laravel, WordPress, REST APIs, UI/UX Design, SEO, WebGL, Firebase
- Game Devel-
opment** Unreal Engine, Unity, Game Design Principles, 3D Modeling (Basic), Python Scripting for Games
- Tools &
Platforms** Git, Docker, Google Cloud Platform (GCP), AWS (Bedrock), Adobe Creative Suite (Photoshop, Illustrator), Figma, Microsoft Office Suite
- Databases** PostgreSQL, MySQL, MariaDB, MongoDB
- Concepts** Agile Methodologies, Data Structures, Algorithms, Object-Oriented Programming, Cyber-security Fundamentals, Blockchain Principles

Work Experience

- Mar 2024 – Present **WordPress Design & Developer Intern**, *Akbor Skills Development Limited*, Dhaka
- Developed 5 responsive WordPress websites, reducing page load time by 40% through custom theme optimization and achieving 95% client satisfaction rate specifications.(ex:hectordecastro.com)
 - Implementing modern UI/UX principles to enhance user engagement and site usability.
 - Customizing themes and developing plugins to extend WordPress functionality.
 - Performing website performance optimization and basic SEO implementation.
 - **Technologies:** WordPress, PHP, HTML, CSS, JavaScript, Web Design Tools.
- Jan 2020 – Present **Freelance Commercial Designer**, *Fiverr Platform*, Remote
- Delivered **200+ branding projects** for clients across 15 countries, achieving a **4.9/5.0 average rating** and maintaining an **80% client retention rate**.
 - Created **150+ unique brand assets** (logos, brochures, social media kits) using Adobe Creative Suite, contributing to an average **25% increase in client conversion rates**.
 - Developed compelling UI/UX mockups for web and mobile applications, reducing client revision requests by 40
 - Consistently received 5-star feedback for communication, creativity, and timely delivery.
- Jun 2024 – Jul 2024 **Data Visualization Specialist (Job Simulation)**, *Tata Consultancy Services (via Forage)*, Remote
- Developed 3 interactive Power BI dashboards analyzing 50,000+ customer records, reducing report generation time by 75% and improving data accessibility across 5 departments.
 - Employed Python (Pandas) and Excel for data cleaning, transformation, and preparation.
 - Applied statistical analysis and data storytelling techniques to present actionable insights.
 - **Tools:** Power BI, Python, Excel.
- Apr 2024 – May 2024 **Cybersecurity Analyst (Job Simulation)**, *Tata Consultancy Services (via Forage)*, Remote
- Identified 15 critical vulnerabilities using simulated penetration testing tools and techniques.
 - Proposed and documented remediation strategies, including firewall rule adjustments and access control enhancements, contributing to a simulated 40% reduction in security incidents.
 - Conducted risk assessments and contributed to improving the simulated network security posture.
 - **Areas:** Penetration Testing, Risk Assessment, Network Security.

Projects

- Ongoing **THETAEnhancer+ : AI Image Restoration & Enhancement**, *Personal Project*
- Developing an advanced AI model for simultaneous image restoration (denoising, deblurring) and super-resolution.
 - Implementing and fine-tuning SRGAN architectures using PyTorch on a custom dataset of 10,000+ images.
 - **Achieved 4x resolution increase** with a target PSNR improvement from 26dB to over 36dB. model inference pipeline by implementing batch processing and CUDA acceleration, reducing processing time from 2.5s to 0.8s per image while maintaining 36dB PSNR
 - **Technologies:** Python, PyTorch, SRGAN, Computer Vision, OpenCV.

Q4 2023 Interactive 3D FPS Game, Academic Project

- Created an immersive first-person shooter game prototype using Unreal Engine 5.
- Implemented core mechanics: player movement, shooting, enemy AI (behavior trees), and level design.
- Integrated Python scripting for specific gameplay logic extensions.
- **Technologies:** Unreal Engine 5, Blueprints, C++, Python, Blender (for basic assets).

Q3 2023 Blockchain-Secured E-Voting System, Conceptual Project

- Designed a decentralized voting system concept leveraging blockchain for transparency and security.
- Focused on cryptographic principles for vote integrity and anonymity.
- Explored smart contracts for automated vote tallying and result verification.
- **Technologies:** Blockchain Concepts, Solidity (Conceptual), Cryptography.

Q2 2023 AI-Powered Data Visualizer, Personal Project

- Built an interactive web-based data visualization platform using D3.js and React.
- Integrated a simple ML model (Python backend via Flask API) to provide basic trend analysis and insights from uploaded datasets.
- **Technologies:** JavaScript, React, D3.js, Python, Flask, Pandas.

CERTIFICATIONS

- Participation in 'Lakho Konthe Sonar Bangla' (Mar 2014)
- Participation in 38th Science & Technology Week - 2017 (District Level) (Apr 2017)
- Skill Development for Mobile Game & Application Project (Cross Platform) (Feb 2022)
- HHP (Mobile) Service For Hardware and Software (Jan 2024)
- Building Generative AI Applications Using Amazon Bedrock (Jun 2024)
- Agile Transformation A to Z | How To Make Any Company Agile (May 2024)
- Cybersecurity Analyst Job Simulation (Apr 2024)
- Data Visualisation: Empowering Business with Effective Insights (Apr 2024)
- Digital Marketing Strategist. Unlock your career growth (Apr 2024)
- Make Simple Games with Python (Apr 2024)
- Build a free website with WordPress (Apr 2024)
- Introduction to Microsoft Excel (Apr 2024)
- A2Z Of Finance: Finance Beginner Course (Apr 2024)
- The SDG Primer (Sep 2024)
- CSS (Basic) (Jan 2025)
- CHAT - A Toolkit to Improve Community Engagement in Emergencies (Jan 2025)
- EF SET English Certificate (C1 Advanced) (Feb 2025)
- Introduction to Critical Infrastructure Protection (Mar 2025)
- CPR, AED, and First Aid Certification Course (CME) (Mar 2025)
- SaveaLife - ACLS Certification 2025 (CME) (Apr 2025)
- SaveaLife - PALS Certification 2025 (CME) (Apr 2025)
- SaveaLife - BLS Certification 2025 (CME) (Apr 2025)
- Bloodborne Pathogens Certification Course (Apr 2025)
- Multiple Indicator Cluster Survey eLearning Course (Apr 2025)

- Cinematic Video Editing Mastery (Apr 2025)
- Customer Service Development (Apr 2025)
- Mobile Application Development using Android (Apr 2025)
- Web Application Development using PHP and Laravel (Apr 2025)
- Professional Back Office Services (Apr 2025)

Trainings & Workshops

- Machine Learning and AI Workshop – Tech Institute (May 2023)
- Web Development Bootcamp – Web Academy (Jul 2022)
- Game Development Using Unity/Unreal Engine Workshop – GameDev Hub (Sep 2022)
- Cybersecurity and Ethical Hacking Workshop – CyberSafe (Nov 2023)
- Data Science and Analytics Workshop – Data Insights (Feb 2024)
- Cloud Computing Workshop (AWS/GCP/Azure) – Cloud Masters (Jan 2023)
- Undergraduates Projects for CSE Students: A Comprehensive Guideline – CSE Forum (Oct 2022)
- Workshop on Beginner's Guide to Python 3 Programming – Python Hub (Dec 2022)
- Arduino Programming and Applications Workshop – MakerSpace (Aug 2023)
- Workshop on Professional C Programming for Job Interview – Code Academy (Mar 2024)
- AR/VR Workshop – Virtual Realities (Jun 2022)
- Software Testing and Quality Assurance Conference – QA Summit (Apr 2023)
- DevOps and CI/CD Conference – DevOps Connect (Feb 2023)
- Game Development Using Unity Webinar – GameDev Online (Jul 2023)
- Mobile App Development Seminar – App Creators (May 2024)
- Blockchain and Cryptocurrency Workshop – Crypto Lab (Sep 2023)
- IoT Workshop – IoT Innovators (Oct 2022)
- Dive Into R: A Hands-on Programming Workshop – R Learning (Jan 2024)
- SQA Webinar – Quality First (Nov 2022)

Extracurricular Activities

Leadership & Volunteering

- President, Adamjee Eco Amica Club (AEAC) (Jan 2019 - Dec 2020)
- Graphics Designer, Leo Club of Dhaka Mega City (Jan 2022 - Dec 2023)
- Treasurer, Vantage IT Limited, Uttara (Jan 2022 - Dec 2023)
- Event Coordinator, BD Clean, Dhaka (Jan 2021 - Dec 2022)
- Graphics Designer, ADUST Prothom Alo Bandhu Sabha (Jan 2023 - Dec 2024)
- General Secretary, Social Environment and Human Rights Implementation Agency (Apr 2023 - Mar 2024)

Technical & Creative

- Organizer, ACC Coding Club
- Member, ADUST Programming Club
- Mentor, ACC Cultural Club
- Member, ACC Photography Club

Sports

- Sporting Director, ADUST Football Club
- Active Member, Badminton Team

Languages

Bengali	Native
English	Fluent (C1 Advanced - EF SET)
Hindi	Conversational
Urdu	Conversational
Arabic	Basic

Interests

- Artificial Intelligence & Machine Learning, Game Development (Unreal Engine), Web Technologies
- Cybersecurity Trends, Cloud Computing Architectures, Blockchain Applications
- Algorithmic Problem Solving, Digital Art & Animation, Photography, Reading Tech Blogs

Disclaimer



I hereby declare that the information provided is true and correct to the best of my knowledge.