

RIFAT ARMAN CHOWDHURY

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Education

BRAC University <i>Bachelor of Science in Computer Science</i>	Dhaka, Bangladesh Oct 2021 – Sep 2025
Oxford International School <i>CAIE Advanced Level</i>	Dhaka, Bangladesh 2021
Oxford International School <i>CAIE Ordinary Level</i>	Dhaka, Bangladesh 2019

Technical Skills

Languages & Scripting: Python; JavaScript; SQL
Frontend: React; Next.js; HTML; CSS
UI Frameworks: Tailwind; Shadcn; Bootstrap; DaisyUI
Backend: Node.js; Express; Flask; REST
Databases/ORM: PostgreSQL; MySQL; MongoDB;
Cloud/DevOps: Vercel; Firebase; CI/CD
Testing/QA: Test planning & case design; Requirements traceability & risk-based testing; API testing (Postman); Web/UI automation (Selenium/WebDriver); Python scripting & PyTest; SQL/data validation; CI/CD test pipelines (GitHub Actions); Defect management & triage (Jira/TestRail)
Tools: Git; VS Code; GA4; Looker Studio; Tableau; Power BI; Excel
Other: n8n; Zapier; GoHighLevel; JWT; OAuth2; Email HTML/MJML; Figma

Experience

Obby <i>Technical Engineer & Data Analyst</i>	USA (Remote) Nov 2024 – Present
<ul style="list-style-type: none">Built 17+ responsive client landing pages and full websites; implemented the front end with React, Tailwind CSS, shadcn/ui, and Redux; created site forms with QuillForms; after backend integration, authored test plans, executed cross-browser/device QA, and fixed issues for productionImplemented Meta Pixel and GA4; launched and monitored Meta/Google Ads campaigns; analyzed performance and produced weekly reports; automated form-submission alerts to Slack, Google Voice, and email; set up automations for SEO/branding content posting and client onboarding	
Mentors Education <i>Instructor of ESL</i>	Dhaka, Bangladesh Nov 2023 – Present
<ul style="list-style-type: none">Delivered spoken English and grammar classes to 450+ students; developed 11 lesson plans and assessments; provided individualized feedback to improve student outcomesIntroduced digital attendance and progress tracking; coordinated curriculum with faculty; facilitated mock tests and speaking practice sessions	
Oxford International School <i>Intern, Event Management</i>	Dhaka, Bangladesh Oct 2020 – Mar 2021
<ul style="list-style-type: none">Coordinated logistics and volunteer schedules for Annual Sports Day 2021 and Science Fair 2021, covering registrations, venue layout, equipment checklists, signage, and vendor communicationCoordinated safety and crowd-flow measures with teachers and volunteers, including entry points, queuing, and emergency contacts	

Projects

FinGuard | *React, Tailwind, Recharts, Flask, PostgreSQL, JWT*
AI-Powered budgeting app with dashboards for spending, income, and savings.

- React UI with interactive charts; Flask API with PostgreSQL and JWT auth
- Added budget suggestions (planned ML), env-configured setup for reproducible tests

Code

BlinkGPT | *Python, Django, OpenCV, SQLite*
Eye-tracking chatbot interface for hands-free accessibility.

- OpenCV gaze/blink detection for cursor actions and on-screen keyboard input
- Django backend with bundled SQLite; calibration for varying webcams and lighting

Code

Thesis / Research Project

An Advanced Machine Vision Technique for Quality Control of Fabric in the Textile Industry
BRAC University
Jun 2024 – Jun 2025

- Advanced machine vision pipeline for textile quality control using a novel 7k-image factory dataset; combines YOLOv8 for defect localization and EfficientNet-B0 for classification/verification
- Achieved 91% overall accuracy on a held-out validation set; demonstrates reliable defect detection and category separation suitable for downstream QA checks
- Designed for production readiness with modular stages and dataset-centric retraining; adaptable to new fabric types and emerging defect patterns

Leadership & Co-Curricular Activities

Researcher, Computer Vision and Intelligence System (CVIS) Lab,
BRAC University
Sep 2023 – May 2025

- Contributed to applied computer vision research; assisted with dataset preparation, experiment design, and literature reviews aligned to lab objectives
- Implemented and evaluated baseline models; documented findings and shared results in internal reviews to guide next iteration

Senior Executive, Football Club of BRAC University
Oct 2022 – March 20214

- Coordinated club operations and events with the executive committee; supported training schedules, logistics, and university liaison
- Managed communications and volunteer teams; improved event readiness and participation through clear task tracking and follow-ups

References

Sabrina Anjum Islam Coordinator, Foundation Grammar and Writing Mentors' Education Email: sabrina@mentors.com.bd	Raisul Islam Ratul Coordinator, Spoken English and GED Mentors' Education Email: ratul@mentors.com.bd
Kevin Yoo CEO Obby Email: kykevinyoo@gmail.com	Md. Ashraful Alam Associate Professor, School of Data and Science BRAC University Email: ashraful.alam@bracu.ac.bd