



SHOHAM MALLICK

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CAREER OBJECTIVE

Aspiring Computer Science and Engineering professional from CUET, passionate about leveraging technology to solve real-world problems through innovative, scalable, and user-focused solutions. Proficient in 15+ programming languages and skilled across AI/ML, web/app/game development, and cybersecurity. Eager to contribute to cutting-edge projects at world-class tech companies.

"Merging creativity with technology to build a smarter, sustainable future."

SKILLS

- Languages: Python, Java, C, C++, JavaScript, R, Go, Rust, Kotlin, Swift, TypeScript, Scala, Dart, Shell scripting, MATLAB
- Web Dev: HTML, CSS, JavaScript, React, Node.js, MySQL
- App/Game Dev: Android, Unity
- Design: Figma, Adobe XD, Photoshop, UI/UX
- Cybersecurity: Kali Linux, Wireshark, Metasploit, OWASP ZAP
- DevOps: Git, CI/CD, Agile Project Management

FEATURED BLOG ARTICLES

- What Makes C a Timeless Language?
- Why Python Stands Out in the Programming World
- Can AI Replace Humans in the CSE Sector?
- Why Learning HTML & CSS is Essential for Web Dev

LANGUAGE

- Bengali (Native)
- English (Professional)
- Hindi (Conversational)

EXPERIENCE

March 2019 - November 2020

Remote

Freelance Web Developer

- Built responsive websites and web apps using HTML, CSS, JavaScript, React.
- Integrated REST APIs and backend systems using Node.js and MySQL.
- Delivered high-performing, SEO-optimized websites.

March 2025 - Present

Independent Projects

AI/ML Developer

- Designed ML models using Python, Scikit-learn, TensorFlow.
- Integrated AI into web apps with performance focus.

March 2025 - April 2025

Self-Driven Projects

Cybersecurity Enthusiast

- Conducted penetration tests using Kali Linux, Wireshark, Metasploit.
- Built custom tools for vulnerability testing.

2022 - Present

Quora

Technical Blogger & Educator

- Published 10+ articles on programming, AI/ML, and web development.
- Simplified complex tech topics for a broad audience.

EDUCATION

2025-Present

Chittagong University of Engineering & Technology (CUET)

B.Sc. in Computer Science & Engineering
Ongoing

2024

Chittagong College, Chittagong Board

Higher Secondary Certificate (HSC)
5.00

2022

Chittagong Collegiate School, Chittagong Board

Secondary School Certificate (SSC)
5.00

PROJECTS

AI-Powered Disease Predictor

Tools: Python, Scikit-learn, Pandas, Flask

Developed a machine learning model to predict diseases based on user symptoms. Integrated into a web interface using Flask, enabling users to receive health suggestions securely.

Portfolio & Other Website (Fully Responsive) with UI/UX

Tools: HTML, CSS, JavaScript, React

Designed and developed a personal portfolio & websites to showcase projects, blogs, and skills. Mobile-first, SEO-optimized, and hosted using GitHub Pages.

Real-Time Chat App

Tools: Node.js, Express, Socket.IO, MongoDB

Built a secure, real-time chat platform with user authentication. Includes group chat functionality, typing indicators, and persistent chat history.

Cybersecurity Toolkit

Tools: Python, Bash, Kali Linux utilities

Created a set of automated penetration testing scripts and GUI tools for ethical hacking tasks such as port scanning, vulnerability scanning, and brute force testing.

Interactive Data Visualizer

Tools: Python, Matplotlib, Seaborn, MySQL

Developed a dashboard that visualizes large datasets in real time. Includes filtering options, data trends, and automated reports using Python scripts.

Smart Expense Tracker App

Tools: Java (Android), Firebase

Built a mobile app for tracking expenses with category filters, pie charts, and exportable reports. Integrated Google login and cloud sync via Firebase.

2D Strategy Game – “Code Invaders”

Tools: Python, Pygame

Developed a fun and interactive 2D game where players solve coding puzzles to defeat invaders. Includes multiple levels, score tracking, and sound effects.

🎯 Features: Custom game logic, keyboard controls, modular design

Student Data Management System

Tools: Java, MySQL, JDBC, Swing

Built a desktop-based CRUD application to manage student information. Features include login authentication, real-time updates, record search, and data validation.

🎯 Features: Add/Edit/Delete student records, database backup, clean GUI

ACHIEVEMENTS & AWARDS

Solved 1000+ problems on Codeforces, LeetCode

10+ published blog posts

Hackathon participant

50+ publications

PUBLICATION

"The Rise of Generative AI: Redefining Creativity in Software Development"

Published on Medium – March 2025

Explores how generative AI tools like ChatGPT, GitHub Copilot, and Stable Diffusion are revolutionizing coding, UI/UX design, and content creation, with insights from personal project integration.

"Cybersecurity for Beginners: Practical Tools Every Developer Should Know"

Published on Hashnode – February 2025

Introduces essential tools like Kali Linux, Wireshark, and OWASP ZAP, with beginner-friendly walkthroughs and case studies based on self-driven cybersecurity projects.

"Building Smart Applications with Python: A Real-World Guide to AI Integration"

Published on Dev.to – January 2025

A deep dive into integrating AI models using Python, Scikit-learn, and TensorFlow, including a breakdown of your AI-powered Disease Predictor project.

"From Scratch to Scalable: How I Built My Developer Portfolio Website"

Published on Medium – April 2025

Walks through the process of designing and developing your personal portfolio using HTML, CSS, JavaScript, and React. Includes performance tips and SEO optimization strategies.

"C vs C++: When and Why to Use Each in Modern Development"

Published on TechTalks Blog – May 2025

An analytical comparison of two foundational programming languages, explaining their use cases in system programming, game engines, and competitive coding with code snippets and benchmarks.

"AI Meets Ethics: Can Machines Be Trusted with Critical Decisions?"

Published on Hashnode – March 2025

A thoughtful exploration into the ethical concerns of deploying AI in fields like healthcare, finance, and defense. Highlights responsible AI practices and real-world use cases.

REFERENCE

Dr. Shahriar Kabir - Professor

Department of CSE

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Engr. Mahbub Hasan - Assistant Professor & Researcher – AI & Robotics

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Dr. Md. Tanvir Ahmed - Associate Professor,

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LET'S CONNECT

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Signature:

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