

# Debayan Ghosh

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Portfolio: <https://www.welearn.solutions/>

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## Summary

This is Debayan Ghosh a 3rd year CS Undergrad having knowledge in **Web Development, Blockchain Development, Low-level programming** and creating fantastic web solutions, learnt collaborative learning via **Open Source, Freelance, Hackathons, Contests** and many more. Looking forward to contribute organizations to leverage high quality experience

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## EDUCATION

**Brainware University (currently 3rd yr)** Barasat, West bengal, India Bachelor of Technology in Computer Science (BTech in CS(AIML)); GPA: 8.43

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## SKILLS SUMMARY

- **Languages:** JavaScript, Typescript, Java, Go, C++, C, Solidity
  - **Libraries:** ReactJs, React Native, Redux, Redux Toolkit, Jest, Micro Front End, Material UI, Bootstrap, PrimeReact, Tailwind, Styled Components, Stitches, ShadCN, Bootstrap
  - **Tech:** Postgresql, MongoDB, Gin, Next.js, socket programming
  - **Tools:** Node, NPM, Yarn, Vite, Webpack, Git, Unit Testing, DevOps, Vercel, Firebase, Jenkins, CI/CD, UX, Linux, Docker
  - **Soft Skills:** Excellent communication, Troubleshooting, Problem Solving, Team Management, Decision Making
  - **Smart Contract Development:** Solidity, Rust, Foundry, Hardhat, Solana, Vyper, Brownie, ETH, Polygon, L2(zksync) DEFI, NFT
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## PROJECTS

### 1. Real Time Bug Detection and Fixing Fine tune Model extended to VS code Extension (Dec 2024 - April 2025)

- **Tech Used :** Python, NLP, Machine Learning , Deep Learning, wandb, huggingface , Data Preprocessing , Web scraping , vsix development, Typescript etc

#### Exceptionality:

I have scraped the dataset from **github, w3schools** to feed my fine tune model. And I deployed that model on **hugging face** and I have created a **vs code extension** that can detect and fix any vulnerable code in real time.

- Main Repository [for models] : [https://github.com/felixoder/bug\\_detection\\_ml\\_project](https://github.com/felixoder/bug_detection_ml_project)
- Main Repository [for vs code extension]: <https://github.com/felixoder/felix-detect-fix>
- The Extension : <https://marketplace.visualstudio.com/items?itemName=DebayanGhosh.felix-detect-fix>
- Getting Started documentation: : <https://usefelix.vercel.app/>

### 2. JobEra August 2024

- **Tech Used :** Go, React.js, Typescript, Tailwind, Redux, Postgresql, Render, Vercel, Docker, Stripe

#### Exceptionality:

Different environment for the **Geeks** and the **HR**, Premium user mode, **Apply for jobs seamlessly**, manage **Jobs**, and **Geeks**

- Code: <https://github.com/felixoder/JobEra>
- Live Link: <https://jobera-go.vercel.app/>

### 3. Cryptographic hash [djb2 hash, md5 hash, SHA256 hash] and NPM package “felixhash” sept 2024

- **Tech Used:** Typescript, Node, math, c, makefile, assembly
- This is a project where I have implemented an fully fledged djb2 hash, md5 hash and a shadowed SHA256 hash from scratch.

And I have implemented an **npm** package **felixhash** that can calculate the SHA256 hash of any strings

- github1: <https://github.com/felixoder/cryptographic-algorithm>
- github2: <https://github.com/felixoder/cryptohash>
- package: <https://www.npmjs.com/package/felixhash>
- Live Link: <https://hashmaker.vercel.app/>

#### 4. Gola A Toy Programming Language November 2024

- **Tech Used: Golang, Compiler Design, Assembly, Compiler Synopsys,**
- This is a Toy programming Language where people can write code in their normal language (bengali: an indian language). It is both available in REPL and compiler format. It can be installed on linux, windows and macOS
- Code: <https://github.com/felixoder/gola-language>

#### 5. StackOverflow Clone November 2023

- **Tech Used: Express, Node, React, Javascript, Tailwind, Redux, MongoDB, Firebase,**
- It has been created to make a platform to give the user the functionality like Stack Overflow, users can ask questions, Reply, Give answers, apply for jobs and many more.
- Code: [https://github.com/felixoder/discussion\\_group](https://github.com/felixoder/discussion_group)
- Live Link: <https://felixunderflow.onrender.com/>

#### 6. University TechHub | Freelance July 2023

- **Tech Used: Express, Node, React, Javascript, Tailwind, Redux, MongoDB, Firebase,**
- This is created to give the student to log in Via university mail id and they can view the live hackathons, events, and many more and the admin can post that and there is also section to view the toppers of the university and there is a section of **Live Chat** and many more
- Code: <https://github.com/felixoder/bwu-techhub>
- Live Link: <https://bwu-cse-techhub.onrender.com/>

#### 7. MY Own HTTPD web server using C | December 2024

- **Tech Used: C, Socket-Programming, Assembly etc**
- This is a low level project where I have created a fully fledged Httpd server where we can host a html/ image or plain text webpages, also we can handle the routes using middlewares and also we can protect the MIME type using ~proper validation and security.
- Code: <https://github.com/felixoder/httpd-web-server>

#### 8. Web3 Crowdfunding Application Oct 2024

- **Tech Used: Typescript, Node, solidity, chainlink, ZkSync**
- This is a project where I have implemented an fully fledged crowdfunding application where people can send money by following a smart contract and the owner of the contract can withdraw the money
- Smart-Contract: <https://github.com/felixoder/Fund-Me>
- Dapp Code: <https://github.com/felixoder/web3-CrowdFund>

#### 9. E-Shop | Freelance January 2024

- **Tech Used: Go, React, Typescript, Tailwind, Redux, MongoDB, Firebase, Stripe**
- It is a simple E com application that enables the user to purchase products and the admin can post, accept the orders.
- Code: <https://github.com/felixoder/Go-Shop>
- Live Link: <https://go-shop-mk17.vercel.app/>

#### 10. My Own Defacement Tool using C web server january 2025 - Feb 2025

- **Tech Used: C, Socket-Programming, Assembly, web dev, cyber security, pen testing, wadev vul,**
- This is a defacement script made by me using C programming language that can deface any websites having **wadev** vulnerabilities (Unauthenticated PUT req problem). And I built this in a youtube live
- Code: <https://github.com/felixoder/deface-script-c>