# Rudranil Chowdhury

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### **EDUCATION**

Techno Main Salt Lake 2023 – 2027

B. Tech in Electronics & Communications Engineering

GPA: 8.68 / 10.0

Relevant Coursework: DSA, Computer Networks, OOPs, Web Development, Fuzzy and Neural Networks (9+ modules, 120+ hours)

#### **PROJECTS**

# ZENITH – AI-Powered SSDLC Work OS — LINK

Apr 2025 - May 2025

- $\bullet$  Identified gaps in Secure Software Development Life Cycle (SSDLC) causing delays in 5/10 major projects due to fragmented security enforcement.
- Designed a modular Work OS using *Next.js*, *TypeScript*, *Node.js*, and *Express*; integrated *AI* models for code analysis, vulnerability scanning, and document generation.
- $\bullet$  Implemented CI/CD automation and containerized 8+ microservices using **Docker** to ensure scalable, secure deployment workflows.
- $\bullet$  Reduced development time by 40%, improved code security audit scores by 60%, and saved 120+ dev-hours in internal deployments with 90% SSDLC automation.

# JUDICIO - Bail Reckoner System — LINK

Sep 2024 - Dec 2024

- Targeted inefficiencies in legal aid by digitizing bail eligibility assessments for 30+ undertrial prisoners using 5+ legal statutes and 20+ precedents.
- $\bullet$  Developed a React + Vite frontend and a Node.js + Flask backend; integrated i18n for accessibility across 7+ languages.
- $\bullet$  Processed 10,000+ judicial records, tracked 2,000+ incarceration periods, and used AI logic to flag 85% of eligible cases.
- $\bullet$  Achieved 40% reduction in bail processing time, translated over 14,000 words, and scaled usage to 200+ legal aid professionals and authorities.

# HERSHIELD - Proctored Women Safety App — LINK

Jan 2025 - Mar 2025

- $\bullet$  Designed a real-time, secure women-safety application tested by 50+ participants to enhance urban safety experiences.
- Engineered a React.js + TailwindCSS UI with 95+ Lighthouse scores; built a Golang backend using Web-Socket for ;100ms latency across 10+ concurrent sessions.
- Integrated NLP for real-time chat/call threat detection trained on 500+ samples; deployed safe-route heatmaps using Leaflet.js updated every 10 minutes.
- Improved safety outcomes by 75%, flagged high-risk incidents via AI threat scores, and processed 500+ crowd-sourced data points during trials.

# ACHIEVEMENTS

- Grand Finalist at Smart India Hackathon 2024 (Software Edition) Led one of the top 5 teams (out of 40+) under *Law automation* category.
- Led a cross-functional team of 3 developers and 1 UI/UX designer to build the official portfolio website for **EDGE 2025**, Techno Main Salt Lake's flagship techno-management fest, in 7 days delivering 12+ pages and 100% mobile responsiveness.

### **SKILLS**

Database: MongoDB, MySQL, Excel/CSV Files, PostgreSQL

Tools: MS Office 365, Git, GitHub, VS Code, Visual Studio, DaVinci Resolve, Canva