

Arman Ahemad Khan

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Final-year B.Tech CSE student specializing in **Full-Stack Development and Cyber Security** — building production-grade **SaaS** and **real-time web applications** with **FastAPI, React, Next.js, Spring Boot, REST APIs and WebSockets** over SQL databases, shipped with Docker and CI/CD. Strong application-security foundation (OWASP Top 10, DevSecOps) that carries into writing clean, secure, well-tested code.

EDUCATION

Silicon University

B.Tech in Computer Science and Engineering — CGPA: 9.15

Bhubaneswar, Odisha, IN

Sept 2023 – May 2027

Apex English Medium School

Higher Secondary (Class XII), Science — CBSE — 90%

Jajpur, Odisha, IN

Aug 2022 – May 2023

Apex English Medium School

Secondary (Class X) — CBSE — 82%

Jajpur, Odisha, IN

Aug 2020 – May 2021

PROJECTS

IndusTrust Bank — Core Banking Service | Java 21, Spring Boot, Spring Security, PostgreSQL, Docker, CI/CD 2026

- Rebuilt a console Java/JDBC banking app into a session-authenticated **Spring Boot** service exposing **23 REST endpoints**, with a genuine **double-entry ledger**, BigDecimal money handling and BCrypt-hashed credentials.
- Made every transfer safe by construction using **pessimistic row-locking acquired in deterministic order** to eliminate deadlocks under concurrent transfers; integration suite runs on every push in CI.

SiteShield — Multi-Tenant SaaS Security Scanner | Python, FastAPI, React, PostgreSQL, Docker June 2026 – Present

- Built a **multi-tenant SaaS product** end-to-end — a **Python/FastAPI REST API** (JWT auth, tenant-scoped data isolation, Pydantic validation) consumed by a **React** frontend — running four async engines that grade a site's security posture and generate **PDF reports**.
- Backed by **PostgreSQL**, fully Dockerized, with a green **pytest** suite running on every push via **GitHub Actions**.

NetScope — Real-Time Network Packet Analyzer | Python, Scapy, WebSockets, JavaScript, Render/Vercel 2025

- Built a full-stack real-time security console in **Python** — a Scapy protocol-dissection engine streaming live capture to a browser dashboard over a **hand-rolled, pure-stdlib WebSocket server** written without an external framework.
- Implemented from-scratch anomaly detection (**SYN flood, port scan, ARP spoofing, C2 beaconing**) behind a tokenized responsive frontend (dark/light theming, WCAG AA, keyboard navigation); **32 passing pytest tests**, API on Render + console on Vercel.

CineRoulette — Movie Discovery Platform | Next.js 14, React, TypeScript, PostgreSQL, Redis, Vercel 2025

- Built a full-stack **Next.js 14** application using **server components and API routes**, delivering personalized recommendations over a catalogue continuously synced from an external REST API by a background worker.
- Backed by **PostgreSQL** for relational data and **Redis** for hot-path caching, with multi-dimensional server-side filtering and debounced search; deployed on **Vercel**.

EXPERIENCE

Cybersecurity Intern

May 2026 – July 2026

Jazzee Technologies

Bhubaneswar, India

- Performed **vulnerability assessments and penetration testing** on web applications, identifying **OWASP Top 10** flaws (SQL injection, XSS, broken authentication) and reporting them with risk ratings and remediation guidance for developer teams.
- Ran network reconnaissance and traffic analysis with **Burp Suite, Nmap, and Wireshark**; supported hardening of Linux servers and web-facing services.

DevOps Masters Intern

June 2025 – July 2025

Ingenious Tech Pvt. Ltd.

Bhubaneswar, India

- Built an end-to-end **DevSecOps pipeline on AWS EKS** integrating Terraform, Kubernetes, Docker, and **GitHub Actions CI/CD** with automated security scanning.

AWS Masters Intern

June 2024 – July 2024

Ingenious Tech Pvt. Ltd.

Bhubaneswar, India

- Deployed full-stack apps on **AWS EC2** (Linux/Nginx); configured S3 lifecycle policies and **least-privilege IAM** roles.

TECHNICAL SKILLS

Languages: Java, Go Lang, C++, JavaScript, Python, C, SQL, HTML/CSS

Frontend & Backend: React, Next.js, Responsive UI, FastAPI, REST APIs, WebSockets, Spring Boot, Spring Security, JWT Authentication

Databases: PostgreSQL, Redis, MongoDB, MySQL, Oracle

Cloud & DevOps: AWS (EC2, S3, IAM, EKS), Docker, GitHub Actions, CI/CD, Render, Vercel

Tools: pytest, Git, VS Code, IntelliJ, PostHog

Security: OWASP Top 10, Penetration Testing, Burp Suite, Nmap, Wireshark, Scapy, Kali Linux