

## Rubinder Singh

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## Summary

Software Engineer with 4+ years of experience across backend systems, frontend development, and security-driven architectures. Proven track record at Amazon and Ethos Life building scalable verification platforms, fraud detection pipelines, and compliance-focused solutions. Recognized for driving cost savings, compliance, and mentoring peers while delivering high-quality systems under fast-moving environments.

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## Skills

- **Languages & Frameworks:** Java, Spring Boot, NestJS, React.js, Next.js, Tailwind CSS
  - **Architecture & Tools:** Microservices, Docker, Swagger, Optimizely (feature flags), Solution Design (HLD/LLD)
  - **Databases:** PostgreSQL (Amazon RDS), TypeORM, DynamoDB, MongoDB
  - **Cloud & Infra:** AWS (S3, SQS, SNS, Step Functions, KMS, IAM), Airflow
  - **Security & Compliance:** GDPR, Data Encryption, Masking, Token-Based Auth, Risk Mitigation
  - **Other:** Algorithms, Problem Solving, Mentorship, Fraud Detection Pipelines, Salesforce Integrations
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## Work Experience

### Software Engineer

**Ethos Life** | Feb 2024 – Present

- Migrated legacy user data matching logic from upstream into IDV backend service.
- Re-architected vendor flow → invoked fallback vendor only when required.
- Achieved ~70% cost savings for one vendor integration.
- Re-architected **Phone IDV** by moving attempt tracking, OTP throttling, and state management from frontend → backend.
- Enforced backend-only attempt counters and cooldown windows to prevent OTP abuse.
- Reduced integration cycles for new IDV flows from ~3 months → under 3 weeks.
- Built **Document IDV** from scratch, triggered only after primary verification failure.
- Backend generated inquiry IDs + session tokens, handled expirations, resumed sessions with Persona APIs.
- Reduced upstream integration effort to ~2 days due to backend persistence and APIs.

- Secured webhooks with **HMAC-SHA256 signature + timestamp verification**.
- Built **fraud detection pipeline** (Airflow → Salesforce), eliminated duplicate tickets, improved categorization reliability.
- Enforced encryption, masked storage, and ID-only responses for PII.
- Achieved **IDV system compliance milestone (Q2 2025)**.
- IDV backend processes **4K+ verification requests daily** with 2–3% monthly growth, maintaining reliable state management.
- Mentored junior engineer → within 8 months, they co-owned Phone IDV ERDs.  
*(Initially joined via Thinkify Labs on contract in Feb 2024; converted to full-time in Sep 2024 based on performance.)*

## SDE-1

**Amazon** | Gurgaon, India | Aug 2021 – Aug 2023

- Enhanced financial data tracking → added multi-currency metrics for 10K+ daily invoices.
- Reduced reporting turnaround from days → minutes.
- Automated invoice routing → reduced developer effort from 1 week → <0.5 day.
- Led GDPR compliance for 4 backend payment services (audits, deletion workflows, privacy controls).
- Migrated credential manager tool to AWS → mitigated 25 risks, designed remediation for 50+.
- Mentored intern → converted to full-time.
- Recognized in **Amazon Finance Org Q2 2022** for risk mitigation.

## SDE Intern

**Amazon** | Gurgaon, India | Jan 2021 – Jul 2021

- Built serverless virus scanning pipeline for S3 backlog files with AWS Lambda.
- Integrated into vendor portals (Backbone.js, Ajax, Ruby on Rails, AngularJS).

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## Achievements

- Amazon Finance Org recognition (Q2 2022).
- Cleared NDA, recommended for SSB.
- 100% college fee waiver for >95% in 12th Standard.

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## Education

B.E. – Computer Science

Thapar Institute of Engineering and Technology, Patiala | Aug 2017 – Apr 2021