

Sudhanshu Singh

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WORK EXPERIENCE

Stealth Startup

Philadelphia, PA

Founder & Full-Stack Engineer

Apr 2026 - Present

- Architecting a multi-tenant, HIPAA-compliant Home Health EMR/EHR platform (0→1, solo) using Next.js 14, TypeScript, PostgreSQL, Prisma, and Redis, with a database-per-tenant model for agency-level data isolation.
- Building human-in-the-loop AI agents (Anthropic SDK) for scheduling optimization, credential monitoring, and document classification, with PHI-anonymized prompting and mandatory human approval before any data write.
- Implemented defense-in-depth PHI security — AES-256 field-level encryption, AWS KMS key rotation, PostgreSQL TDE, RBAC via NextAuth.js — plus an append-only audit logging system meeting HIPAA’s 6-year retention requirement.
- Engineered a two-phase record mutability system (Prisma transactions) with auditable pre-lock edits and immutable post-lock revisions, auto-calculating payroll deltas and driving invoice cancel-and-replace billing flows.
- Built a rule-based authorization engine (Zod) enforcing payer-specific unit budgets and scheduling constraints in real time, and integrated healthcare APIs (Waystar, ADP, Sandata/HHAeXchange) with retry logic and reconciliation tracking.

365 Health Services

Philadelphia, PA

EVV Specialist

Aug 2024 - Jul 2026

- Engineered Python/Bash data-validation pipelines (Pandas, NumPy) to process structured Medicaid/EVV records at scale, raising audit compliance from 74% to a sustained 89% average — above the state’s 85% EVV threshold.
- Built automated data-cleaning and rule-based error-detection pipelines for weekly Kantime/HHAeXchange system exports, generating correction reports that cut manual review time 70%+.

Dukaan

Philadelphia, PA

Full Stack Developer

Mar 2023 - Aug 2025

- Developed a groceries/snacks delivery app using React Native and Node.js, featuring push notifications, real-time GPS tracking, and expedited checkout flows.
- Integrated Stripe (payments) and DoorDash Drive (delivery logistics) APIs, improving operational efficiency 37% and payment processing speed 31%.
- Built an automated email dispatch system and Shopify–Firebase integration (Node.js, Firebase Functions) to sync order/inventory data and trigger notifications in real time.

Berkley Technology Services

Wilmington, DE

Product Management Analyst, QA Engineer

Sept 2021 - Mar 2022

- Automated 100+ test cases (Gosu, Katalon Studio) for Guidewire PolicyCenter integrations and refactored 70+ legacy regression tests, cutting execution time 63%.
- Integrated automated testing into a Jenkins/Git CI/CD pipeline for daily builds, reducing deployment failures 35% through pre-merge validation.

PROJECTS

Digital Pathology: MLOps Engineer

Sept 2022 - Jun 2023

- Built a deep learning pipeline to process large Whole Slide Images (10–25 GB per image) for sinusitis cell detection.
- Developed CNN-based PyTorch models (achieving 83% accuracy) with Felzenszwalb, Quickshift, and SLIC segmentation for precise region-of-interest (ROI) identification, utilizing NumPy/Pandas for data pre-processing and analysis.
- Containerized services on AWS, using SageMaker for large-scale training/inference, S3 for image storage.

EDUCATION

Bachelor of Science in Computer Science, Drexel University

Philadelphia, PA

Concentrations: Software Engineering, Human-Computer Interaction

Sept 2018 - Jun 2023

SKILLS

Programming Languages:	TypeScript, JavaScript, Python, Java, SQL, Bash, PHP, C/C++
AI & Machine Learning:	PyTorch, CNNs, Anthropic SDK, NumPy, Pandas
Frontend Development:	React, React Native, Next.js, AngularJS, Tailwind CSS, Responsive Design
Backend Development:	Node.js, Flask, REST APIs, SOAP APIs, Prisma, PostgreSQL, PgBouncer, Zod, Redis, NextAuth.js
Cloud & DevOps:	AWS (S3, SageMaker, KMS), Docker, Kubernetes, Jenkins, CI/CD, Git
Tools & Testing:	Stripe, Shopify, DoorDash API, Waystar, ADP, Katalon Studio, Jira, Gosu