

Utkarsh Vats

DevOps & Cloud Engineer · Independent Builder

BTech IT graduate shipping production software under the Obtuse Labs brand while going all-in on DevOps and cloud engineering. Four years of operations management experience, now channeling that into infrastructure, automation, and shipping real products.

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WORK EXPERIENCE

Independent Developer

2025 – Present

Obtuse Labs

- Building and shipping production software in edu-tech, legal-tech, and developer education under the Obtuse Labs brand
- Architecting TC Generator — automated Transfer Certificate system for Indian schools with CSV bulk upload, class defaults, and Razorpay payment integration
- Built eLegalReader v2 — legal document parser with async processing (Celery + Redis) and Telegram bot delivery for court orders
- Full-stack development across Next.js, Django + DRF, PostgreSQL, and REST API design

School Manager

06/2022 – 2025

JR Convent School

- Managed end-to-end school operations — faculty coordination, resource allocation, and government compliance across 4 academic years
- Oversaw inventory, budgeting, and standards enforcement; identified process gaps that led to building TC Generator
- Facilitated stakeholder communication between institution, guardians, and external organizations

Freelancer

2022 – 2024

Remote

- Legal Reader — NextJS web app for AI-powered legal document analysis, clause extraction, and summarization using OCR models
- Girl-Code-It — developed landing and product pages in ReactJS; improved site performance and UX
- Deepak Solar Agency — designed and shipped product showcase website in ReactJS

EDUCATION

B.Tech — Information Technology

Maharaja Agrasen Institute of Technology

08/2018 – 05/2022

Delhi, India

K-12 (10+2 Standards)

Rajkiya Pratibha Vikas Vidyalaya

03/2010 – 04/2017

Delhi, India

LANGUAGES

Hindi

Native/Bilingual Proficiency

English

Full Professional Proficiency

SOFT SKILLS

Communication · Teamwork · Problem Solving · Mentorship · Flexibility · Confidence

PERSONAL PROJECTS

TC Generator tcg.obtuse.in

Automated transfer certificate generation for Indian schools. 16-field form, CSV bulk upload, class-level defaults, Razorpay payment tier.

eLegalReader elr.obtuse.in

Legal document parser with async task processing. Upload court orders via Telegram — get structured summaries back.

PulseNotify api.pulsenotify.obtuse.in

Production notification & price-alert backend — Django DRF, Celery Beat, Redis, Docker Compose, GitHub Actions CI/CD, deployed on AWS EC2 behind Nginx with HTTPS.

NES Emulator

JavaScript NES emulator with cycle-accurate 6502 CPU simulation and hardware-level browser emulation. Custom debug console for machine-level logic.

Search & Sort Visualizer

Dynamic visualizer app for searching and sorting algorithms for budding developers to analyse and understand algorithm workings.

CERTIFICATES

- AWS Solutions Architect Associate (SAA-C03) — In Progress
- Algorithmic Toolbox: University of California San Diego (06/2020 – 08/2020)
- META: Introduction to Back End Development (01/2024 – 05/2024)
- META: Introduction to Front End Development (01/2024 – 05/2024)

TECHNICAL SKILLS

Cloud & DevOps

AWS (EC2, S3, RDS, VPC, IAM, Lambda), Docker, Kubernetes, Terraform, GitHub Actions, Linux

Backend

Python, Django + DRF, Celery, Redis, PostgreSQL, REST APIs, SQL

Frontend

Next.js, ReactJS, JavaScript, TypeScript, Tailwind CSS, HTML/CSS

Programming Languages

Python, JavaScript, C++, C, SQL

INTERESTS

Simulations · Artificial Intelligence · Cloud Architecture · Robotics · Video Games · Physics · Painting