

# Ibrahim Khalil

Product • Technology • Systems Builder

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Systems & Product Builder tackling business and operational challenges across industrial, consumer, and digital ventures. Experienced in designing operational systems, launching ventures, and executing research-backed policy and analytics initiatives.

## Education

Ashoka University	B.Sc Computer Science & Entrepreneurial Leadership CGPA: 3.58 / 4	2022 – 2026
St. Xavier's College	Maharashtra State Board (Class XII)	2020 – 2022
St. Stanislaus High School	Maharashtra State Board (Class X)	2020

## Professional Experience

<b>OutThink</b> Product Manager	Jul 2025 – Present
<ul style="list-style-type: none"><li>PM for <b>Real-Time Threats (RTT)</b>, driving cross-functional delivery with engineers, designers and QA; responsible for roadmap and launch of the company's first production feature reaching <b>100+ enterprise customers</b>.</li><li>Shipped <b>PhishSignal</b>, a live Chrome extension countering phishing manipulation; owned idea → launch in <b>&lt;6 weeks</b>, ran user tests with <b>10–20</b> early users and coordinated marketing driving <b>~1,000+</b> impressions.</li><li>Ran <b>15+</b> product experiments across security UX, behaviour change and gamified awareness; wrote <b>10+ PRDs/specs</b> reviewed across engineering and design.</li><li>Designed and pitched <b>ForwardLatch</b>, an email-security workflow preventing manipulated forwards/replies inside Gmail; evaluated <b>3 technical architectures</b> and conducted <b>6+ ICP interviews</b>.</li><li>Produced a <b>20+ page strategic research note</b> on Adaptive Security outlining threat layers and product roadmap adopted by leadership.</li><li>Managed weekly sprints, <b>30–40 Jira tickets</b>, standups and delivery alignment across engineering teams.</li></ul>	

<b>Bombay Stock Exchange (BSE)</b> Cybersecurity Policy & Risk Intern	May 2022 – Jul 2022
<ul style="list-style-type: none"><li>Evaluated cybersecurity governance policies and contributed to <b>risk assessment frameworks</b> across enterprise systems.</li><li>Analyzed honeypot security solutions across <b>5+ vendor architectures</b> and participated in consulting discussions with outsourced security teams.</li></ul>	

<b>Sequiretek</b> Malware Analyst & Research Intern	Dec 2022 – Jan 2023
<ul style="list-style-type: none"><li>Built and deployed <b>real-time honeypot threat intelligence tools</b>, logging <b>1,000+ attack attempts</b> and analyzing attacker behaviour patterns.</li><li>Developed a <b>REST API</b> to aggregate and visualize geographical phishing attack data for cybersecurity analysis.</li></ul>	

## Social Impact & Policy Work

<b>Sarfarooshi Foundation</b> Research Fellow	May 2023 – Jul 2023
<ul style="list-style-type: none"><li>Conducted <b>55+ qualitative interviews</b> in Kairana for a socio-economic field study, producing a baseline demographic knowledge report at district and parliamentary levels.</li><li>Worked with district officials — Magistrate, Chief Development Officer and Election Commission representatives — to access data and propose policy recommendations.</li></ul>	

<b>Jan Jagran Shakti Sangathan</b> Field Researcher	Jun 2024 – Jun 2024
<ul style="list-style-type: none"><li>Conducted field research across <b>200+ households in 9 villages across 2 districts in Bihar</b>, studying employment in Dalit communities and access to public welfare schemes.</li><li>Worked with grassroots unions to organize workers and advocate for labour rights through data-driven workshops.</li></ul>	

**NITI Aayog**  
Policy Researcher

May 2024 – Jun 2024

- Contributed to a policy white paper on **Health Tech in India** under the Vice Chairperson's office, synthesizing insights from **15+ national reports**.

**SaveLife Foundation**  
Data & Policy Intern

Jul 2023 – Aug 2023

- Analyzed **200+ hours of highway CCTV footage** to identify road safety violations and propose policy interventions.
- Built internal software tools for crash investigation datasets enabling **fast natural-language queries** for government policy meetings.

## Leadership & Positions Held

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**Ministry of Technology, Ashoka University Student Government**  
Minister ← Deputy Minister of Technology

May 2024 – May 2025

- Developed and spearheaded Ashoka's **first university-wide student engagement platform**, onboarding **3,645+ users** and facilitating 1,360+ cab requests, 1,045+ course reviews, and 200+ pool subscriptions.
- Leading the mailroom project to digitize parcels in and out (~600+ parcels every day) to reduce staff hours, orphan packages, and inefficiencies by **40%**.
- Launched **14+ high-impact student initiatives**, including Semester Planner, Degree Tracker, Pool Cab, Borrow Emergency Assets, and WiFi Heatmap, achieving **95%+ student penetration** and up to **13.5+ minutes** of average engagement time.

**Placement Committee, Career Development Office**  
Projects and Collaborations Head

Dec 2023 – Jul 2024

- Built **Duperset**, a Chrome extension with **900+ users**, and developed a custom website consolidating placement tools used by **3,500+ students** across the university.
- Developed resume-verification APIs to streamline internal admin processes using Google Apps Script, supporting structured data workflows for **200+ recruiting companies**.
- Collaborated with stakeholders and tech teams to maintain databases, manage external opportunities, and streamline internal processes across the placement lifecycle.

**Ashoka University Election Commission**  
Chief Technology Officer

May 2024 – Oct 2024

- Designed and deployed a secure, transparent, and independently verifiable election platform for **2,800+ students**, recording **1,300+ votes with 0% error**. Conducted Ashoka Student Government's first digital election on a custom-built platform, improving user experience, privacy, and security.

**Computer Science Department, Ashoka University**  
Undergraduate Student Representative

May 2025 – May 2026

- Elected Student Representative (May 2025 – May 2026) among 10 candidates, representing 300+ undergraduate students across Computer Science and CS-interdisciplinary majors.

**Ashoka University**  
Head of Technology

Mar 2023 – Sep 2024

- Led digital initiatives for **TEDxAshoka** and 6+ student societies/fests, including Ashoka Political Science Society, Ashoka Society for International Trade and Foreign Policy, and 180 DC Consulting, improving operational efficiency and digital accessibility by 30%.
- Engineered a **Gamified Digital Treasure Hunt** for 300+ student participants, enhancing engagement and event participation.
- Optimized SEO and PR strategies for TEDxAshoka, resulting in a 45% increase in event registrations while managing in-house booking and communication systems.

**Inky Parchments**

Mar 2023 – Sep 2024

Founder & President, Platform Lead

- Built a student-run literary platform that published 300+ literary pieces from 80+ contributors across diverse backgrounds, promoting inclusivity in literature.

## Software Projects & Freelance

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### Ashoka Marketplace

- Full-stack web app using **TypeScript (BE)**, **Next.js**, APIs; multi-vendor e-commerce for Ashoka University.
- Users can own/manage multiple vendors, create unlimited listings with stock/on-demand inventory types, and maintain wishlists.
- Single sign-on with Google authentication ensures secure, seamless access.

### Center for Translation

- Search engine for Ashoka University's Portal of Translated Literatures, improving accessibility and cross-cultural exchange.
- Curated a database of 12,000+ books to support language diversity and global literary appreciation.

### IGNIS MUN

- Auto-mailing system and certificate generator, streamlining 100+ MUN participation requests.

### PhishSignal [\[Link\]](#)

- Chrome extension built in **TypeScript** for Gmail; detects phishing attacks in real time using a rule based engine.

### StorageManager Pro

- Cross-platform storage management app (**Electron.js**) with graphs, charts, and enhanced UI/UX for fast file analysis.

### MailFocus

- Chrome extension (**React + TypeScript**) for inbox productivity; filters emails, manages priority senders, domains, and keywords.

## Research Projects

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### Understanding Religious Ghettoisation in Neighbourhoods Through Voter Lists and Machine Learning [\[Link\]](#)

- Developed a scalable pipeline for processing voter lists using OCR, machine learning, and automated data scraping, enabling demographic analysis at local, regional, and national levels. Developing further to combine with satellite data on road networks, night light luminosity, and open source map data.

### AI Plagiarism Detector

- Focused on identifying AI-generated and AI-edited (humanized) content, distinguishing subtle patterns in AI-human mixed text.
- Engineered a model using linguistic and statistical features (e.g., perplexity, burstiness, Zipf's law) to predict AI influence in written content with high accuracy.
- Further optimized the supervised model using a primary dataset sourced from students with mixed AI-Human content.

### Randomness Beacon

- Developed a real-time, publicly auditable randomness beacon using cryptographic hashing and entropy sources for secure, unbiased random number generation.
- Integrated a webcam-based entropy source, leveraging live video noise to enhance unpredictability.
- Built a Node.js-based backend with a Python-powered entropy computation module, ensuring high efficiency and security.
- Designed a public API for third-party applications to access verified random values, supporting research, cryptography, and fair decision-making.

### Parachute Candidates Analysis [\[Link\]](#)

- Analyzed political parachuting in Lok Sabha 2019, studying 206 parachute candidates out of 8,157 to uncover candidate-constituency dynamics and electoral success correlations.

### Phishing IJSER

- Published research on phishing URL classification using decision trees and ensemble methods, achieving 90% accuracy.

## Ongoing Ventures

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### MetaLaunch Labs [ Technology Agency ]

Currently building and delivering technology solutions across multiple sectors, including web and mobile apps, e-commerce platforms, MVPs, data science and ML algorithms, AI agents, and tech consulting. Focused on creating operationally robust and scalable systems for clients.

## Towluxe [ Consumer Brand ]

Currently managing a premium towel and bath textile brand, overseeing product quality, supply chain processes, and direct-to-consumer distribution, with a focus on operational excellence, brand positioning, and customer experience.

## Teaching & Mentorship

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**CreatEd** — Teacher and mentor for 3 students, guiding them through project work, skill development, and creative problem-solving.

**Teaching Assistant, Introduction to Computer Science** — Supported 130+ students under Prof. Debayan Gupta (PhD, Yale) & Prof. Aalok Thakkar (PhD, UPenn), assisting with lectures, assignments, and lab sessions.

**Lodha Genius Program** — Mathematics Teaching Assistant during Summer 20XX, helping students strengthen problem-solving skills and conceptual understanding.

## Technical Skills

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**Languages:** Python, TypeScript, C, C++, Java, R

**Frameworks:** React, Express.js (EJS), Electron

**Cloud & Infrastructure:** AWS, Azure, Linux, Raspberry Pi, REST APIs

**Product & Collaboration:** Notion, Jira, Figma, GitHub, MS Office Suite

**Automation:** Node.js, Google Apps Script, Power Automate

**Software Development:** Web Apps, Desktop Apps, APIs, Chrome Extensions, CLIs, Google Add-ons

**AI & Data:** Machine Learning, Prompt Engineering, Stata, MongoDB, MySQL

## Awards & Accomplishments

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**Student Life Service Award**, Ministry of Technology | Office of Student Affairs, Ashoka University

*Feb 2025*

**Award for Creativity and Entrepreneurial Initiatives** | Office of Student Affairs, Ashoka University

*Feb 2025*

**Chandanben Mohanbai Patel Rotary Excellence Award** | Rotary Club of Bombay

*Sep 2020*

## Languages

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- English (Native)
- Hindi (Working Proficiency)

- Urdu (Working Proficiency)
- Marathi (Basic Understanding)

## Areas of Interest

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- Industrial Ventures
- Technology-enabled Services
- Manufacturing and Supply Chains
- Consumer Products
- Public Infrastructure and Governance Systems