

Mutsumi Hata

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FULLSTACK SOFTWARE ENGINEER

Strategic administrator turned software engineer, I translate complexity into clarity, directing the ground operations of a \$5M research lab, and designing-building applications by leveraging language models with precision and intent

- Designed, built and deployed full-stack applications, including a mobile habit tracker for a global executive leadership coach
 - Scaled a solo entrepreneur CEO's LinkedIn content presence with a 6-month period, resulting in a 1,000% increase in impressions and 200% in connections
 - Orchestrated internal workflows and shielded leadership and researchers from operational noise, enabling the acquisition of \$5M in corporate funding to launch the Center for Future Banking, a corporate-university collaboration
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TECHNICAL SKILLS

JavaScript | React.js | Next.js | React Native | Node.js | Express.js | MongoDB
TypeScript | APIs | JWT Authentication | Swagger | Git | Postman | Mocha | Tailwind
CSS | Bootstrap | Netlify | Heroku | Render

EDUCATION

Parsity | Durham, NC
fullstack software engineering program

Smith College | Northampton, MA
B.A, major in Anthropology
minor in International Relations

PROJECT EXPERIENCE

Habit App | Community-Driven Habit Formation Platform

- Delivered a full-stack mobile app that supports habit-building through team feedback, cycle-based reflection, and optional reminders
- Built with React Native (Expo), Node.js, Express, MongoDB, and JWT, deployed to Render, with a demo-ready Android .apk

Reframer | Real-Time AI Reframing App

- Created a web app that transforms a user's negative self-talk into constructive reframes using selectable personas, ranging from supportive growth mindset to blunt, no-nonsense redirection
- Built with Next.js, ChatGPT API, and Netlify to demonstrate how AI can shape tone, clarity, and intent in real time

Contact List | Contact Management App

- Expanded a starter Next.js project into a fully functional contact management app with dynamic routing and TypeScript
- Built with Next.js, React, TypeScript, and Context API, showcasing modular state management and clean user interaction

Portfolio Site | Personal Developer Portfolio

- Deployed a personal website to showcase projects, skills, and contact information
 - Created with Next.js, React, Email.js, and Netlify, featuring a modular architecture, contact form, and clean visual
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EXPERIENCE

HopeMakers Collective | Member**2023 – present**

- Designed and built a mobile app enabling users to build sustainable habits through peer-driven accountability and community engagement, using React Native, Expo, Node.js, Express, MongoDB, SendGrid, and JWT authentication
- Conceptualized and executed a consistent LinkedIn content strategy for the founder, writing 2–3 high-quality posts/week that increased output by 700%, impressions by 1,000%, and followers by 20% (3,000+ in 6 months), averaging 10,000 monthly impressions from a previously underutilized account

Parsity | Software Engineering Student**2023 – 2024**

- Built full-stack applications using the MERN stack with features like dynamic filtering, pagination, and user authentication to improve performance and UX
- Engineered backend inventory systems with MongoDB, integrated Swagger for API documentation, and used Postman for testing and debugging RESTful endpoints

AirBnB | Superhost**2019 – 2023**

- Transformed a \$400K property into a \$1M luxury rental by applying strategic renovations, and optimizing guest experience enhancements
- Maintained Superhost status for 4 consecutive years by delivering consistently 5-star guest experiences, resulting in a high occupancy rate, recurring clientele, and increased revenue

Boston Children's Hospital | Lab Administrator**2010 – 2013**

- Managed \$2.5M+ in annual biomedical research funding, ensuring grant compliance and enabling consistent achievement of funding objectives
- Streamlined onboarding and operations for 20+ lab members while supporting a high-performing Harvard PI in securing successful grant applications and high-impact publications

MIT Media Lab | Center for Future Banking | Program Manager**2008 – 2010**

- Supported the successful acquisition and management of \$5M in funding from Bank of America by facilitating cross-institutional alignment and surfacing early insights on stakeholder dynamics
- Directed a \$5M research portfolio, aligning over 300 interdisciplinary projects with sponsor goals to maximize ROI and deepen engagement

MIT Media Lab | Cognitive Machines | Lab Administrator**2007 – 2010**

- Delivered financial oversight for \$1M+ annual research group budget, maintaining compliance with grant requirements and ensuring financial health
- Created and implemented the hiring and workflow systems for a 12-person transcription team supporting a multi-year behavioral research study; ensured high-quality data delivery under tight timelines