

Justin Chang

Early-career Solutions Engineer candidate with experience designing and demonstrating AI-powered workflows, dashboards, and full-stack solutions that translate technical systems into business value and clear user outcomes for non-technical stakeholders.

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Education

University of Toronto, Jun 2026
Honours Bachelor of Science; Double Major in Cognitive Science & Psychology
Relevant Coursework: Computer Programming, Data Structures, Statistics, HCI

University of San Francisco, Aug 2026
Master of Science in Information Systems (Incoming Fall 2026)
Focus: Product Development, Data Systems, Enterprise Technology, Solutions & Data Platforms

Skills

Programming: Python, SQL, TypeScript, JavaScript, R
Frameworks & Web: React, Next.js
Systems & AI: API Design, LLM Integration, Data Pipelines, Full-Stack Prototyping
Analytics & Visualization: Tableau, Figma
Solutions & Technical Communication: REST APIs, workflow automation, dashboard design, technical demos, stakeholder presentations
Languages: English, Mandarin

Professional Experiences

Project Lead & Data Analyst (Health AI) Apr 2025 – present
Temerty Centre for AI Research and Education in Medicine

- Led **development for predictive systems across 30K+ records**, turned clinical data into risk-scoring flows for stakeholder decision-making.
- Built end-to-end pipelines in **Python and R**, **reducing manual analysis time by 70%**, improving reliability and usability of downstream outputs.
- Designed dashboards, turning model outputs into **actionable insights for end users**, supporting adoption of data workflows across the team.

Senior Project Lead, Ontario Institute for Studies in Education Sep 2023 – present

- Re-architected **participant recruitment and scheduling workflows** across **100+ sessions**, **increasing completion rates by 63%**.
- Built structured data systems that **reduced inconsistencies by 70%**, improving reliability of downstream analysis and team coordination.
- Developed operational dashboards to support real-time planning and decision-making across research teams.

Intern Data Analyst, CAMH, Centre for Addiction and Mental Health Aug 2024 – May 2025

- **Built scalable data pipelines** processing **200+ fMRI sessions**, improving data reliability and reducing preprocessing overhead.
- Translated **complex analyses into clear stakeholder-facing insights**, enabling adoption by clinicians and research teams.
- **Delivered technical demos** explaining system outputs and tradeoffs to non-technical audiences.

Research Data Analyst, CAMH, Centre for Addiction and Mental Health, PETRUSHKA study Sep 2023 – Jun 2024

- Coordinated cross-functional communication across **60+ patients and 20+ team members**, improving study scheduling efficiency.
- Built tracking systems in **Excel, R, SQL, and Tableau** to manage study operations and reduce coordination errors.
- Standardized **documentation workflows** to improve team alignment and onboarding speed.

Projects

Quail Mail: AI Email Triage Assistant 🔗, [Live Demo] Jan 2026

- Built and deployed a **full-stack AI system** that transforms inboxes into prioritized task pipelines, **reducing triage time by 80%**.
- Designed **prioritization logic** across sender, urgency, and context to simulate real-world decision workflows for busy professionals.
- Integrated **OpenAI APIs** for real-time classification and **Resend** for production email delivery, including **DNS, SPF, and DKIM setup**.
- Delivered **live product demos** communicating system value and technical workflow.

Kestrel: AI Career Intelligence System 🔗, [Live Demo] Feb 2026

- Built an **AI decision-support system** that converts unstructured job descriptions into readiness scores, skill gaps, and recommended next steps.
- Designed structured **JSON outputs** and a real-time dashboard to make recommendations explainable and easy to act on.
- Translated **messy user inputs into clear, prioritized actions** across resume updates, project ideas, and learning paths.
- Built the system as a **live demo** to communicate technical functionality and end-user value clearly.

Chirpie: AI News Companion 🔗, [Live Demo] May 2026

- Built a **full-stack AI news companion** that ingests multi-source content and generates personalized chat-style digests.
- Designed **schema-constrained LLM outputs** for headlines, context, confidence, and source lists to improve explainability.
- Implemented source attribution, original-report link-outs, and publish context to make summaries more trustworthy for end users.
- Structured the user flow across onboarding, digest delivery, and follow-up interaction to support a clear product demo and repeat engagement.