Kashish Mittal

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EDUCATION

University of Toronto, Canada

Sept 2022 - June 2027

Honors Bachelor's of Science Computer Science with Minors in Mathematics & Economics (Co-op)

- GPA: 4.0/4.0, Dean's List Scholar Winter 2023, 2024
- University of Toronto International Scholar Award Recipient: scholarship amounting to 100,000 CAD

TECHNICAL SKILLS

Languages: Javascript, Typescript, Java, Python, C, SQL (Postgres, MySQL), HTML/CSS, R

Frameworks/Tools: React, Next.js, Node.js, Git, Figma, Keycloak, Docker, GitHub Actions, AWS S3

Work Experience

Software Engineer Intern

May 2024 - Present

Red Hat Developer Hub (RHDH) Team @ Red Hat, Toronto, ON

- Maintaining Backstage's community-plugins repo, encompassing responsibilities like hosting SIG meetings, triaging issues (including CVEs), reviewing PRs, and driving workflow improvements; consistently ranked as the #6 overall contributor.
- Hardened security by adding robust permission checks to two critical catalog endpoints and conditional permission checks for the scaffolder plugin endpoints, mitigating unauthorized access and bolstering access control.
- Drove PoC to implement Backstage's event-driven architecture in RHDH, significantly reducing CPU usage, database load, and API calls to external services.
- Built rhdh-techdocs-pipeline with **GitHub Actions** & **AWS S3** to offer reusable solution to publish TechDocs for customers.
- Established and maintained the rhdh-plugins repository, implementing automated CI and npm publishing for 35+ plugins via GitHub Actions and Changesets to streamline releases.
- Organized two Hack Weeks hosting key sessions, resulting in 12+ PoCs leveraging AI to improve team workflows.

Volunteer Experience

Project Lead

Sept 2024 – May 2025

University of Toronto Blueprint, Toronto ON

- Directed an 8-member team through an 8-month project lifecycle to successfully design and deliver a custom job board web application for Toronto Employment Community Services.
- Defined project scope, authored design documentation, delegated tasks, and mentored junior developers.
- Deployed core system architecture on AWS, leveraging S3 to establish a secure, scalable resume storage solution.
- Facilitated agile ceremonies to drive timely, high-quality delivery, contributing to a 20% increase in sprint velocity.

Research Assistant

May 2023 – Sept 2023

Intelligent Adaptive Interventions Lab, University of Toronto, Toronto ON

- Developed **ABScribe** with researchers, an LLM tool for rapid text variation exploration, reducing workload and enhancing user perceptions in a **12-writer study**.
- Co-authored paper "ABScribe: Rapid Exploration of Writing Variations in Human-AI Co-Writing Tasks using Large Language Models," accepted at ACM CHI 2024.

SELECTED TECHNICAL PROJECTS

Eve | NVIDIA Jetson, docker, Async sockets, Luxonis AI Camera Best Environmental Hack - Hack the 6ix (2024)

- Created an autonomous robot to evaluate building sustainability against LEED, BREEAM, and ISO14001 standards.
- Integrated Luxonis AI camera to enable real-time high-definition image transmission via async sockets, improving data processing by deploying code on NVIDIA Jetson.
- Built a comprehensive report with Next.js & Chart.js, visualizing 4 environmental metrics for clear insights.

Memorify | React, Tailwind, Django, Cohere API, Midjourney

UofTHacks XI (2024)

- Engineered an AI-powered journaling application leveraging Cohere's API and Midjourney AI to automatically extract contact information and generate personalized avatars with 85% accuracy, enabling quick contact creation.
- Led UI development using Figma, React, and Tailwind CSS to achieve an intuitive and user-friendly interface.

Compel-O-Meter | Python, Flask

Teb 2023 -July 2023

- Created a tool which detects propaganda and hate speech against marginalized groups with 3 other peers.
- Implemented an AI-based sentiment lexicon projected to improve long-term model accuracy by 15% after 1000 inputs.
- Boosted sentiment analysis accuracy by 21% (survey result) via NLP pipelines, and data cleansing.