

AASTHA SHARMA

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Education

University of Toronto

September 2022 – June 2026 (Expected)

Bachelor of Science in Computer Science — Dean's Scholar List 2024-2025

GPA: 3.78/4.0

Technical Skills

Languages: JavaScript, Python, TypeScript, Java, SQL, R, C, HTML/CSS, Shell Script

Developer Tools: Github, VS Code, IntelliJ IDEA, PyCharm, Linux, SSH, Figma

Technologies/Frameworks: React, Next.js, Tailwind CSS, Express.js, AWS, Docker, Prisma, scikit-learn, pandas, NumPy

Experience

Unity Health Toronto

May 2025 – Present

Software Developer

Toronto, Ontario

- Built and deployed a **secure full-stack lab platform** using **Next.js, React, SQL, Prisma and Figma**, improving database CRUD operations and data management efficiency by **40%**.
- Conducted **data cleaning, statistical analysis, and visualization** of healthcare datasets for Mpox research in Sierra Leone using **R and Python**, enabling faster epidemiological modeling by **50%**.
- Led **GitHub onboarding workshops** for collaborators, boosting version control adoption and cross-site collaboration by **60%**.

UofT Department of Medicine

September 2024 – April 2025

Web Designer and Developer (Part-Time)

Toronto, Ontario

- Engineered a **full-stack website** using **JavaScript, Node.js, React, and HTML/CSS**, with **CI/CD automation via GitHub Actions**, streamlining deployment cycles and reducing release times by **35%**.
- Designed and implemented **secure database architectures** with **MySQL and Prisma**, reducing potential vulnerabilities by **40%** through security practices.

HomeTrust

May 2023 – August 2023

Summer Student: IT Digital Services

Toronto, Ontario

- Automated routine data transfers** from Azure to Power BI using **Python, MySQL, and RESTful APIs**, reducing daily workload by **2 hours per employee** and improving reporting punctuality.
- Collaborated with a cross-functional team to design an **automated data update system** for **60,000+ customer records**, using **Java, JavaScript, MySQL, and RESTful APIs**, saving over **300 hours of manual work**.
- Wrote comprehensive technical documentation**, contributing to a **20% reduction in post-deployment issues** for Azure-based applications.

Projects

Dish Detect | Python, Scikit-learn, Pandas, Numpy

April 2025

- Developed a **machine learning model to classify dishes** with over **90% accuracy** using classical NLP techniques and classifiers like **Logistic Regression and Naive Bayes**.
- Implemented **TF-IDF vectorization and K-Fold Cross Validation**, boosting model accuracy **from 70% to 90%**.
- Link:** github.com/AasthaSharma272/dishdetect

Scriptorium | JavaScript, React, Next.js, Docker, Prisma, RESTful API, Postman

December 2024

- Developed an **online platform for code execution and collaboration** using **Next.js, React, and Docker** for secure, multi-language isolated environments.
- Built and thoroughly tested a **robust backend with Prisma and RESTful APIs** using **Postman**, and authored detailed **API documentation**.
- Link:** github.com/AasthaSharma272/scriptorium

CareGuard Mobile App | React Native, JavaScript, PostgreSQL, Swift, Figma

November 2024

- Developed and launched an **iOS app** for patients to monitor vitals and medical records, using **React Native and PostgreSQL**, improving user **data access speed by 46%**.
- Integrated **HealthKit and RESTful APIs** for real-time health data collection from Apple Watch; maintained **97% test coverage, reducing bugs by 30%**.