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 2023-2024 *GPA: 3.75/4.0*

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, TypeScript, MySQL, Shell Script
Developer Tools: VS Code, IntelliJ IDEA, PyCharm, SSH, Linux, GitHub, Jira, PowerShell, PowerBI, Microsoft Office
Technologies/Frameworks: React, React Native, NextJS, ExpressJS, Prisma, Docker, Azure, AWS, RestAPI, Figma

Experience

UofT Department of Medicine **September 2024 – Present**
Web Designer and Developer *Toronto, Ontario*

- Developing a **full-stack lab website** using **JavaScript, HTML/CSS, Node and ReactJs**, with CI/CD automation via GitHub Actions.
- Followed **Agile methodologies**, incorporating sprint cycles, **presenting findings to stakeholders and taking iterative stakeholder feedback** to align with **business needs.**
- Leading the design of **secure database architectures with mySQL and Prisma** integration, reducing system vulnerabilities through continuous stakeholder and cross-functional team feedback.

HomeTrust **May 2023 – August 2023**
Summer Student: IT Digital Services *Toronto, Ontario*

- Participated in **extensive code reviews** to ensure high-quality deliverables **deployed to Azure, following Agile development** practices, while **creating technical documentation** for the code and products.
- **Automated routine data transfers** from Azure to Power BI, **reducing daily employee workload by 2 hours**, with a **Python-based solution integrated with MySQL and RESTful APIs**; enhancing team communication and system scalability.
- Collaborated with a cross-functional team to design an **automated system for updating and securing data** for **60,000+ customers**, saving over **300 hours of manual work**. Utilized SDLC, Java, JavaScript, ExpressJs, React, MySQL, and RESTful APIs to deliver scalable, stakeholder-driven solutions.

Projects

Scriptorium | *JavaScript, ReactJS, Next.JS, Prisma, RESTful API, Postman, Docker* **December 2024**

- Developed a dynamic **online code execution and collaboration platform**; leveraging Next.js, and Docker for the backend, and ReactJs for responsive front-end design. Implemented **RESTful APIs and secure Docker-based isolated environments** for multi-language code execution.
- Designed, and tested the app architecture, including **robust database schema design with Prisma, integration testing for API endpoints using Postman**, and wrote **end-to-end official API and user documentation.**
- **Link**: github.com/AasthaSharma272/scriptorium

CareGuard Mobile App | *React Native, JavaScript, PostgreSQL, Swift, Figma* **Novenmber 2024**

- Developed and launched **CareGuard, an iOS app** for patients to monitor vitals and medical records, using **React Native, JavaScript, Figma, and PostgreSQL** for secure data storage.
- Integrated **HealthKit API and Restful APIs** to enable **real-time health data collection** from Apple Watch.
- Delivered well-documented, maintainable code with **97% test coverage**, following software engineering best practices like code reviews, testing, and version control (Github) to ensure high app performance.

Wordle Solver with AI | *Python, Deep Learning, NumPy, pandas, Matplotlib, MySQL* **June 2024**

- Developed an **AI-based Wordle solver using decision trees and deep learning models in Python**, employing libraries like NumPy, MySQL, and pandas advanced data cleaning and processing techniques to optimize word prediction accuracy.
- Implemented and fine-tuned **neural network models to analyze and predict word patterns**, leveraging deep learning frameworks to enhance prediction reliability.
- Designed **interactive data visualizations in Python** to effectively display the model's performance, showcasing word prediction patterns, accuracy rates, and decision pathways, improving user understanding of the AI's decision-making process.