Anushka Sharma

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EDUCATION

University of Toronto, St. George Campus, Toronto, ON **2021-2026**

BSc Computer Science Specialist

Relevant Courses: Foundations of Computer Science, Software Design, Data Structures and Analysis, Theory of Computation, Software Tools & Systems Programming, Computer Organization, Intro to Web Development, Intro to Databases, Intro to Software Engineering

***Clubs & Extracurriculars*:** UofT Women in Computer Science

SKILLS

- ***Object-oriented***: Python (pygame, pandas, tkinter, plotly, numPy, pyPDF2, gtts, pyttsx3, pytube, nltk, os, pil, pydub, math, random, networkx, scipy, kaleido, scikit-learn, matplotlib, and PyCharm), Java (javafx, Swing, JSP, and IntelliJ IDEA, Eclipse), C#
- ***Web development***: HTML, JavaScript (React), Angular, Flask (Python), Next.js, React.js, Node.js, Chart.js, Material-UI
- ***Systems Programming***: C, C++
- ***Database***: SQL, MYSQL, PSQL, JDBC, Tailwind, Firebase, Snowflake, BigQuery
- ***Statistical computing***: R (tidyverse, ggplot2), STATA
- ***Tools***: GitHub, Git, Linux, RESTful APIs, version control, unit testing, ASP.NET MVC, AWS, PowerBI, Google Cloud Storage (GCS), Dataflow
- ***Infrastructure as Code***: Terraform
- ***Workflow Orchestration***: Microsoft Task Manager, BigQuery Data Transfer, Apache Airflow
- ***Others***: Latex, Operating systems (MacOS, iOS, Windows, Android OS), Microsoft Office Package, Tableau

WORK EXPERIENCE

Data Engineer Intern at *League Inc.* **May 2025-August 2025**

- Developed a Python-based Dataflow tool to parse logs from GCS buckets and export results to BigQuery, significantly reducing manual log analysis time from weeks to under 15 minutes + automated deployment of the log processing pipeline using Terraform, ensuring consistent infrastructure setup
- Built an aggregated data lake in BigQuery by consolidating metrics from multiple GCP environments, enabling centralized analytics
- Wrote complex SQL queries to compute metrics and designed Apache Airflow DAGs (in Python) to automate metric table creation and extraction workflows across environments
- Engineered a data pipeline to export metrics as CSV files to GCS, followed by automated ingestion into BigQuery using Terraform-configured data transfers

Data Analytics Software Developer Intern at *Advanced Micro Devices (AMD)* **May 2024-April 2025**

- Developed a full-stack web application with a Python Flask backend and React frontend, featuring an interactive dashboard using Chart.js to display key metrics for AMD's ATM2 internal testing platform. Designed and implemented the dashboard, including statistical analyses for metric generation, data retrieval from a Snowflake database, and UI development. Managed the project independently, liaising with stakeholders to ensure requirements were met
- Implemented a dynamic web app with Flask backend and Angular frontend that utilized Jama API calls & internal AMD platform 'ATM2' and a large language model (LLM) to identify ambiguities in project requirements & test descriptions, significantly enhancing clarity and efficiency
- Introduced task scheduling, prompt engineering, and a vector database (RAG & embeddings) to enhance communication and reduce managerial input by 93%
- Developed a dynamic reporting web application using ASP.NET MVC, C# and Razor, enabling users to generate customized Jira ticket updates by project and team, with advanced functionalities for ticket grouping and sorting by priority, labels, and deliverables, enhancing team productivity by streamlining the reporting process by 98% and provided critical insights into project status

Python Developer for *Kidney Health Education and Research Group* at the *University Health Network (UHN)* **May 2023-April 2024**

- Converted and debugged 100+ STATA files into python functions, generating datasets by extracting and organizing data from external servers and electronic patient health records, developing a robust data warehouse using ETL (Extract, Transform, Load) processes
- Engineered Python scripts for data extraction and processing, improving data retrieval efficiency by over 95%
- Ensured all processes moving data across platforms and through research datasets are secure by collaborating with team members and data engineers through Github and designing automated solutions to integrate information from patient master database to research database

PROJECTS & EXTRACURRICULAR

Task Manager – Web Development & Python **2024-2025**

- Developed a full-stack task management web application using Python (Flask) and React, allowing users to create, organize, and prioritize tasks & integrated features for managing subtasks, adding personalized task journals, and collaborative note-taking within tasks for seamless team communication and progress tracking
- Designed and implemented a dynamic analytics dashboard to track productivity and visualize insights such as task completion rates, overdue tasks, and time-to-completion statistics
- Utilized SQLite for backend data management, supporting task CRUD operations, user authentication, and real-time collaboration, and ensured an intuitive, user-friendly interface with Material-UI components

Qatalyst – Web Development **2024**

- Partnered with *Qatalyst* to create an innovative web platform that integrates with essential tools like GitHub and Jira, enabling engineering leaders to monitor team performance through advanced analytics
- Led the development of backend using Node.js, including setting up user authentication with Github App Auth, using Oktokit to interact with Github API to aid data retrieval, setting up various APIs for user login/register use cases, for generating Github access tokens, and for retrieving repository data
- Designed and implemented a robust backend system using Firebase, optimizing data storage & retrieval for user profiles, repository data, & performance analytics

Pinterest Clone – Web Development **2023-2024**

- Developed a high-performance Pinterest Clone using Next.js 13, React.js, Tailwind CSS, and Firebase, leveraging modern web technologies to deliver a scalable and efficient solution
- Engineered responsive user interfaces, optimizing cross-device functionality and ensuring seamless user experiences across diverse screen sizes
- Integrated Firebase for real-time data synchronization, showcasing full-stack expertise in building dynamic, cloud-connected applications with robust data handling capabilities