

SHUBHAM GARG

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github.com/SHU8HAM1

Education

University of Toronto

Sep. 2023 – Cont.

Bachelor of Science in Computer Science

Toronto, Ontario

- Software Engineering Specialist and Statistics major, 3rd Year
- Web Developer at UTRAHack
- Director of Academics at DS3
- Director of Enrichment and Events at Computer Science Enrichment Club
- Director of Events at Quant, AI, and Finance Society

Job Experience

University of Toronto

6 January, 2025 – April 30, 2025

Software Web Developer — Full Time

Toronto, ON

- Added a new feature in Islandora Workbench to change file name and URI by developing a JSON REST endpoint in Drupal and adding a new command that makes request to the endpoint by reading the csv data.
- Developed shell command to queue items for indexing, deleting, and extracting metadata from nodes and media in Drupal queues by reading a csv, improving team efficiency by more than 400%
- Developed a feature to get xml and hocr from pdfs and inserting it into the node and developed a feature to search for items in the xml and hocr files and highlight their positions in Mirador Viewer by using linux shell commands and API calls to Drupal.
- Worked with MariaDb and MySQL queries to debug problems in stored data.

Projects

TagGit | *Next.js, Express.js, PostgreSQL, WebRTC, Socket.io, Stripe*

June 2024

- Developed a multiplayer tag game with proximity chat using Phaser and Next.
- Used Stripe Checkout and webhooks for a subscription based model for the access to the game
- Used Sockets.io and WebRTC to implement player movement and proximity chat
- Used OAuth2 with GCP for user login
- Built CI/CD pipeline with Github Actions and docker to automatically deploy and update the website

Project Epiready | *Python, React, BeautifulSoup, Django*

May 2025

- Developed a shipment tracking website using React and Flask for cold-chain logistics
- Using Maps API for live location tracking and sharing and risk analysis using weather conditions
- Giving real time alerts via email and text whenever temperature or humidity thresholds are crossed
- Built CI/CD pipeline with AWS container service to automatically test and deploy application

Toronto Asian Art Museum Cataloguing App | *Android, Java, Firebase, Mockito, Espresso*

June 2024

- Developed a cataloguing website which lets museum display their items and generate reports on them.
- Lead a group of 5 to build the app facilitating standup meetings and debugging any impending issues.
- Used SCRUM for development alongside confluence tools like
- Used Firebase Realtime Database and Authentication to manage users and add/remove items from the dataset.
- Used Multithreading to dynamically generate PDFs allowing a smoother experience for the client.

Certificates

Introduction to Data Science: Course by University of Michigan that teaches data cleaning, numpy, pandas, and handling large datasets

Introductory Machine Learning: Course by Coding Ninjas that teaches Neural Networks, gradient descent, logistic and linear regression, KNN, Naive Bayes, and Decision trees via scikit-learn

Coourses

Programming on Web: Fundamentals of making secure and scalable websites

Software Design: Understanding system architecture and best practices and developing Android apps

Technical Skills

Languages: Python, Java, C/C++, HTML/CSS, JavaScript, Php, SQL

Developer Tools: Google Firebase, AWS, Microsoft Azure, Github Actions, Dockerhub

Technologies/Frameworks: Linux, Django, Git, React, Jupyter, Tailwind, Drupal, MariaDB, MySQL, PostgreSQL, PeerJS, Phaser, Sockets.io, Docker, Docker Compose