SuryaTeja Gorthi

Aspiring software developer

PERSONAL DETAILS

Birth   October 20, 2002
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Github   `https://github.com/Sharrabbha1`

EDUCATION

BEng. Software Engineering

Ontario Tech University   *Sept 2020 – May 2025*

Pursuing a rigorous curriculum with a strong emphasis on coding proficiency and a comprehensive understanding of computing environments. Achieved recognition on the **President's Honor List** for Fall 2020 and the **Dean's List of Honour** for Fall 2024.

SKILLS

Software   Matlab, Linux, SolidWorks CAD, IntelliJ, Visual Studio Code, Visual Studio, LabView, PyCharm, Microsoft Power Apps, Microsoft Power BI, Android Studio, MongoDB, Xcode
Programming Languages   Python, Java, C++, C#, C, Ruby, Flutter, Dart, .NET Framework, DAX
Web Development   HTML, CSS, PHP, JavaScript, React, Angular, React Native, JSON, Firebase
Databases & Data Tools   MySQL, NoSQL, Firebase Realtime Database, Firebase Firestore, SQL Server
Development Tools   GitHub, Git, Maven, Docker, Wireshark
Cybersecurity & Testing   SQL Injection Testing, Network Protocol Analysis

WORK EXPERIENCE

Information Officer   *March 2025 – Present*

Elections Canada (part-time)

Serving as the first point of contact for voters during the federal election process. Assist with voter registration, direct electors to appropriate stations, and provide accurate information on voting procedures. Ensure smooth, organized, and secure election day operations in compliance with Elections Canada policies.

Data Analyst   *May 2023 – May 2024*

Ontario Power Generation (Internship)

Utilized Microsoft SQL Server,Power BI and Power Apps to build analytics solutions supporting nuclear personnel. Designed and automated ETL pipelines to streamline data workflows and reporting. Interactive dashboards created that enable real-time, data-informed decisions to enhance safety and operational efficiency. Created Power apps and made sure to help in data creation and reporting.

Software Developer   *Nov 2022 – Apr 2023*

Ontario Tech University (Apprenticeship)

Built a mobile app using Flutter with an intuitive user interface and smooth navigation. Developed back-end services in Python, integrated with Firebase for authentication and storage.

PROJECTS

Food App   *Nov 2024 – Dec 2024*

Built a food planning app using Flutter and Dart. Users can select meals, assign them to calendar dates, and receive alerts if spending limits are exceeded. Integrated Firebase for secure authentication and real-time data syncing across devices. Designed an intuitive UI with dynamic widgets for flexible meal tracking and editing.

By-Laws Municipal App   *Sept 2024 – April 2025*

Built a full-featured civic engagement app enabling citizens to report municipal by-law violations (e.g., noise complaints, illegal parking) via mobile. Developed role-based dashboards for Citizens, Officers, Admins, and (planned) Senior Officers, with tiered permissions and task flows. Implemented real-time report submission, tracking, and action workflows — including image/video evidence, status updates, and ticket issuance. Front end developed in React Native (Expo); backend powered by Firebase Auth, Fire store, Storage, and Cloud Functions. Designed a clean, modern UI using a green municipal theme. Extra features include secure login, regional filtering, and draft-saving functionality for citizen-submitted reports.

WeatherSimulation – Weather Forecasting Model   *Jan 2025 – April 2025*

Developed a predictive weather simulation platform using machine learning models including Monte Carlo, ARIMA. Implemented Monte Carlo simulations to model uncertainty and generate probabilistic forecasts. Designed real-time visualization tools for confidence intervals, trend comparison, and outlier detection. Integrated multiple forecasting models with toggled analysis views and interactive evaluation metrics. Deployed as a full-stack solution with python backend and React frontend for a dynamic user experience.

AWS S3 File Management Tool   *Feb 2025 – March 2025*

Designed and implemented a secure file upload and retrieval system using Amazon S3. Authenticated users are able to upload, view, and manage files through a web interface. Integrated access control policies and life cycle rules to optimize cloud storage usage and cost

Google Cloud Data flow – MNIST Streaming & Batch Pipeline   *Feb 2025 – April 2025*

Developed and deployed end-to-end data pipelines using Apache Beam on Google Cloud Dataflow for real-time and batch processing of the MNIST handwritten digit dataset. Designed and implemented MapReduce-style word count pipelines, and integrated BigQuery for batch inference output and Pub/Sub for live streaming predictions. Leveraged TensorFlow models, service accounts, Docker-based worker configuration, and Google Cloud Storage buckets for scalable and secure cloud execution. Demonstrated setup and deployment with working dashboards and prediction results across multiple GCP services.

CERTIFICATIONS

Google Data Analytics Professional Certificate   *Completed 2024*

REFERENCES

Available upon request.