

SuryaTeja Gorthi

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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, Flutter, Dart, .NET Framework, DAX, Angular, SQL Injection Testing (Ethical Hacking)

Web Development: HTML, CSS, PHP, JavaScript, React Native, JSON, REST APIs

Development Tools: GitHub, Git, Maven, Wireshark, Metasploit Framework

Cybersecurity & Networking: SQL Injection, Cross-Site Scripting (XSS), TCP/IP Protocols, Penetration Testing, OWASP Top 10, Network Security

Data Science & Forecasting: Machine Learning (Regression Models, Neural Networks), Weather-Based Simulation, Time-Series Forecasting, Data Analysis with Python (Pandas, NumPy, SciPy, Scikit-Learn)

Databases: MySQL, NoSQL, MongoDB, Firebase Firestore, Firebase Realtime Database

Work Experience

Data Analyst

May 2023 – May 2024

Ontario Power Generation, Internship

- Developed and optimized **Power BI** dashboards for **data visualization and analytics**.
- Automated workflows using **Microsoft Power Apps**, reducing manual work by 30%.
- Designed and optimized **SQL queries** for efficient database management and reporting.
- Conducted **SQL injection vulnerability assessments** to enhance database security.

Software Developer

Nov 2022 – April 2023

Ontario Tech University, Apprenticeship

- Designed and coded a **cross-platform mobile app** using **Flutter & Dart** with an intuitive UI/UX.
- Developed a secure backend using **Python & Firebase** for data storage and authentication.
- Conducted **penetration testing** on the app to identify security vulnerabilities before deployment.

Pre-Sales Engineer

May 2021 – August 2021

Safritel Canada Inc, Part Time

- Ensured pricing accuracy and generated **comprehensive sales reports** using **Microsoft Excel & SQL**.
- Authored **technical documentation** for software solutions and cybersecurity best practices.
- Assisted in **cybersecurity awareness training**, focusing on secure data handling.

Projects

BreacherX – Cybersecurity Testing Tool

January 2025 – Ongoing

- Developed a **custom penetration testing tool** for **SQL injection**, **XSS vulnerabilities**, and **TCP/IP scanning**.
- Integrated **Python-based automation** to bypass authentication and test website security.
- Used **Metasploit Framework** and **Burp Suite** for network vulnerability analysis.
- Designed an **ethical hacking dashboard** for real-time exploit tracking.

WeathSim – Weather-Based Forecasting Simulation

January 2025 – Ongoing

- Built a **predictive weather forecasting model** using **LSTM**, **Random Forest**, and **ARIMA**.
- Designed a **real-time weather simulation** to predict extreme conditions (storms, heatwaves, rainfall).
- Utilized **Python (Pandas, NumPy, SciPy, TensorFlow)** for data-driven forecasting.
- Integrated the model into a **Flask & React.js** web application for visualization.

Food App

Nov 2024 – March 2025

- Developed a **food planning mobile app** using **Flutter & Dart**.
- Implemented a **budget tracking system** to notify users when exceeding their spending limit.
- Enabled **calendar-based meal tracking** with editable entries.
- Integrated **Firebase authentication** for user security.

Note Me App

Nov 2024 – Nov 2024

- Created a **React Native** mobile app for note storage and categorization.
- Implemented **local storage (AsyncStorage)** for data persistence.
- Designed an intuitive **UI with React Native components**.

By-Laws Municipal App

Sept 2024 – Ongoing

- Built a **multi-platform software** for accessing municipal by-laws.
- Used **MongoDB, Python, JavaScript, JSON, HTML, CSS** for full-stack development.
- Developed an **interactive search feature** to quickly retrieve regulations.

Certifications

- **Microsoft Certified: Azure Data Scientist Associate** – Ongoing
- **Google Data Analytics Professional Certificate** – Completed

References

Available upon request.