

# Sunny Patel

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## EDUCATION

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**Bachelor of Science in Information Technology, Data Analysis**

**2025**

Georgia Southern University

Statesboro, GA

## TECHNICAL SKILLS

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**Languages** | Python, JavaScript, Java, HTML/CSS, SQL

**Frameworks/Libraries** | NumPy, Seaborn, Plotly, Pandas, PsychoPy,

**Tools** | Git, VS Code, Azure, Tableau, Power BI, Supabase (PostgreSQL), Streamlit

## PROJECTS

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**NFL Stats Pipeline** | Python, Supabase (PostgreSQL), Streamlit, Power BI

**2026 - Present**

- Built an end-to-end ETL pipeline processing 500K+ NFL play-by-play records across 10+ seasons by joining datasets with multi-key joins while handling missing IDs and null values to ensure data integrity
- Designed a star schema with 12 analytical views to support multi-dimensional queries across position, performance metrics, and time
- Developed custom metrics (snap efficiency, consistency scores using coefficient of variation) to evaluate player performance, including filtering low-sample players
- Deployed an interactive Streamlit dashboard with parameterized SQL queries, linked to Power BI for reporting.

**EEG Emotion Recognition Research** | Python, Pandas, PsychoPy, Emotiv Pro

**2023 - 2024**

- Processed 32-channel EEG data from 25 participants (50 sessions), transforming raw signals into structured datasets for analysis
- Aggregated min/max amplitudes into structured datasets and created spatial visualizations mapping brain activity across scalp regions
- Built data processing workflows for experimental event tracking and dataset generation
- Curated literature review of 100+ articles to support a 9-emotion valence-arousal analytical model

**COVID-19 InfoPage Web App** | JavaScript, REST APIs, Azure

**2020**

- Integrated third-party APIs using fetch requests and JSON parsing.
- Implemented dynamic data handling, filtering, and reusable UI components for structured presentation.
- Explored cloud storage integration via Azure Blob Storage

## WORK EXPERIENCE

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**IT Intern**

**2024 - 2025**

**MCI (Signify Health)**

**Savannah, GA**

- Troubleshoot and documented IT issues in automated dialer, CRM, and scheduling software while ensuring HIPAA compliance with data handling
- Validated healthcare data and analysed performance reports to recommend process improvements

**Inventory Technician**

**2015 - 2019**

**Fulfillment.com**

**Savannah, GA**

- Led data reconciliation during migration from Excel-based tracking to Deposco WMS for a 100+ employee warehouse, resolving discrepancies by cross-referencing
- Trained 3+ employees on system workflows and handheld scanning tools, improving operational efficiency

**IT & Operations Support**

**2013 - Present**

**Vaishno Inc.**

**Savannah, GA**

- Automated Excel sales/inventory audits with formulas/validation, cutting manual processing by 3x
- Resolved POS/network/firewall issues and coordinated vendor upgrades