JASON CHARWIN

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EDUCATION

University of North Carolina - Chapel Hill **August 2024 - June 2027**
Bachelor's, Data Science *GPA: 3.7*

PROFESSIONAL EXPERIENCE

GBCS Group **Remote**
Data Science Intern *August 2025 - Present*
- Developed and deployed predictive models to analyze search performance, content trends, and conversion patterns across platforms
- Cleaned and structured large-scale keyword and engagement datasets using pandas and NumPy, engineering features to improve training accuracy
- Experimented with regression and clustering models to identify growth levers and audience segments, integrating results into a live KPI dashboard built with Plotly and Flask
- Collaborated cross-functionally to present data-driven insights that refined content strategy and increased organic traffic efficiency.

Hope Street Free Clinic **Charlotte, NC**
Data Analytics Intern *December 2024 - August 2025*
- Designed and implemented a resource allocation optimization model to determine optimal clinic site placements and procedure mixes, maximizing patient reach under staffing and supply constraints
- Built a full-stack data system integrating a Python + Flask backend, SQLite database, and a lightweight React-based intake interface to digitize scheduling and patient records
- Analyzed historical data to identify under-served neighborhoods, producing actionable recommendations that increased service efficiency and cut idle time by 60%
- Authored a deployment playbook standardizing data-driven planning for future community events.

PROJECTS & OUTSIDE EXPERIENCE

Brain Bleeding Classification Model **Chapel Hill, NC, USA**
Machine Learning Researcher
- Built a deep learning classification model to detect brain bleeding in CT/MRI scans using a ResNet50-based architecture
- Implemented preprocessing, augmentation, model training, evaluation, and a real-time prediction interface
- Delivered saved checkpoints, metrics, and a structured ML pipeline following reproducible research standards.
- *Link to project*

F1 Corner Analysis **Remote**
Developer and Data Analyst *June 2025 - Present*
- Built a telemetry analytics system using FastF1 to process throttle, braking, and tire-degradation signals
- Applied time-series clustering and lap-delta regression models to compare driver performance across corners
- Integrated an LLM-driven natural-language interface that converts user prompts into telemetry visualizations
- Deployed the platform using Next.js and Python-backed APIs.
- *Link to project*

The Search for a Second Earth **Chapel Hill, NC, USA**
Developer *September 2025 - September 2025*
- Built an interactive exoplanet explorer using NASA and ESA datasets
- Cleaned and merged more than 4,000 entries with Python, engineered habitability indicators, and deployed a high-performance Next.js interface with virtualized tables, custom filters, and planetary comparison features.
- *Link to project*

Wasting No Time - Correlation Analysis on Child Wasting **Chapel Hill, NC, USA**
Developer *February 2025 - June 2025*
- Conducted a statistical and machine-learning analysis of global child wasting using WHO and World Bank datasets
- Built regression and ensemble models (Random Forest, Gradient Boosting) to identify predictors of malnutrition
- Created publication-ready visualizations and contributed to the final report presented at UNC's Data Science Showcase.

SKILLS

Skills: Java, Python, Pandas, NumPy, matplotlib, Scikit-learn, Pytorch, R, iOS/Swift, TypeScript, Flask, Node.js, React.js, Next.js, Tailwind CSS, Docker, REST APIs, SQL, MongoDB, HTML/CSS, Git, CI/CD, GitHub Actions, Tableau, VS Code, AMP, Tailscale, Vercel, Agile, SCRUM, SEO, Data Analysis, Statistical Inference, Demand Forecasting, Resource Allocation Optimization, Web Development, Project Management, Teaching, Mentoring, MATLAB, Excel/Numbers/Sheets
Languages: Spanish, Tamil