

# ROBERT DENNIS

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## PROFESSIONAL SUMMARY

Data Analytics senior experienced in Machine Learning and Full-Stack Web Development. Proven experience in federal research (DOE, USCRP) developing predictive models and automated data solutions. Proficient in Python, SQL, and React.js, with a track record of reducing model error rates by 15% and launching independent SaaS platforms.

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## SKILLS

- **Data Science & ML:** Python (Pandas, NumPy, Scikit-Learn, TensorFlow), R, Jupyter Notebooks, Google Colab.
  - **Data Analytics:** SQL (PostgreSQL, SQLite), Tableau, Power BI, Excel, A/B Testing, Time Series Analysis.
  - **Web Development:** React.js, Flask, Jinja2, REST APIs, psycopg2-binary, BCrypt, Render.
  - **Mathematics:** Calculus I & II, Matrix Algebra, Linear Algebra, Regression & Cluster Analysis.
  - **Soft Skills:** Critical Thinking, Problem-Solving, Business Acumen, Leadership, Adaptability, Communication, Collaboration, Accountability
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## RESEARCH & PROFESSIONAL EXPERIENCE

Founder & Product Lead | Rentern [rentern.onrender.com](https://rentern.onrender.com) | Jan 2025 – Present

- **Developed** a full-stack platform enabling small businesses to outsource task-based projects to interns.
- **Engineered** backend logic using **Flask** and **PostgreSQL** to manage project workflows and pricing automation.
- **Applied** analytics to market validation and service optimization to streamline user onboarding.

**Machine Learning Research Intern | Dept. of Energy (DOE) Savannah State University |**  
<https://www.unlv.edu/announcement/cybersecurity/concise-partnership-continues-5th-year-grant-extension> | Aug 2024 – Jan 2025

- **Analyzed** time-series data from hydroelectric turbine sensors to identify failure patterns.
- **Constructed** a **Random Forest** model that **reduced the margin of error by 15%** compared to baseline models.
- **Presented** data-driven insights and technical visualizations to Department of Energy sponsors.

**Machine Learning Intern | U.S. Coastal Research Program (USCRP)**  
<https://uscoastalresearch.org/2024-funded-projects> | May 2025 – Aug 2025

- **Automated** data collection by migrating legacy Matlab scripts to **R**, utilizing external APIs for real-time retrieval.
- **Developed** an automated data dashboard to visualize coastal well metadata for public and research use.
- **Evaluated** multi-dimensional oceanographic variables to determine their impact on coastal data shifts.

**Research Fellow | CONCISE Program (ML & Cybersecurity)**  
<https://www.unlv.edu/announcement/cybersecurity/concise-partnership-continues-5th-year-grant-extension> | Jan 2025 – Dec 2025

- **Executed** advanced research in Machine Learning and Cybersecurity through a multi-university federal grant.
- **Completed** technical workshops in predictive threat modeling and hands-on ML implementation.

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## EDUCATION

**Savannah State University | B.S. in Data Analytics | Current**

- **Involvement:** C-F.I.V.E. (Computer Science Club), CONCISE Program.

**Strayer University | A.B.A. in Entrepreneurship | July 2024**

- **Honors:** President's List, Phi Theta Kappa Honor Society.

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## WORKSHOPS & CERTIFICATIONS

- **NASA Data Exploration Workshop:** Intensive 3-hour satellite data analysis and exploration.
- **S3TEM Workshop:** Topic: “SALE YOURSELF” – Professional branding and technical communication.
- **Google Data Analytics Certification**