Rice Davis

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EDUCATION

University of South Carolina, Molinaroli College of Engineering and Computing　　　　Columbia, SC
Candidate for Bachelor of Science in Computer Engineering　　　　Expected May 2026
Major: Computer Engineering | Minor: Business Administration | Concentration: Data Science　　**GPA: 3.95/4.0**
- Achieved Dean's List 5 consecutive semesters, Presidents List 4/6 semesters.
- Activities: Tau Beta Pi Professional Engineering Fraternity, Member of Pi Kappa Phi fraternity, Intramural Soccer.

TECHNICAL SKILLS

Languages: Python, R, SQL, C++

Tech Stack: Git, DataBricks, Jupyter Notebook (Anaconda), PyCharm, Spotfire, Tableau, MS Office

PROFESSIONAL EXPERIENCE

ASML　　　　Wilton, CT
Business Engineering Intern　　　　June 2025 – August 2025
- Applied **AGILE/SCRUM** methodologies within the Business Engineering department to guide project development.
- Cleaned, transformed, and structured large datasets to enable reliable analysis and modeling.
- Built and optimized predictive models in **DataBricks** using **Python** libraries including **Pandas**, **NumPy**, **Scikit-learn**, **Matplotlib**, and **Seaborn**.
- Implemented advanced forecasting techniques with **XGBoost** and **Prophet** to improve prediction accuracy.
- Evaluated model performance using RMSE (2.5 days), MAE (1.8 days), and MAPE (6%), achieving a prediction error of less than 10% on median monthly cycle times.
- Ensured code integrity and collaboration by adhering to **GitLab** version control best practices.
- Delivered clear and impactful **MS PowerPoint** presentations of technical findings to both technical and non-technical stakeholders.

ARTech Packaging and Lubricants　　　　Bethel, CT
Production Associate　　　　June 2021 - August 2024
- Streamlined inventory management using advanced Excel functions, including visualization tools and conditional formatting, to track and optimize supply levels.
- Programmed and implemented automation timing systems for product conveyors, improving efficiency and reducing manual intervention.
- Ensured quality control by monitoring production lines, troubleshooting machinery, and maintaining safety compliance.
- Packaged 2,000+ units daily, ensuring accuracy and meeting production targets.

LEADERSHIP EXPERIENCE

Study Group Leader　　　　University of South Carolina, Columbia, SC
Leader of study sessions 2-3 times a week　　　　August 2022 – Present
- Hosted multiple effective study groups for varying courses including Physics, Digital Logic Design and Vector Calculus.
- Promoted discussion and teamwork by facilitating instruction and allowing students to discuss their own questions and ideas.

RELEVANT COURSEWORK

- Statistics for Engineers
- Computer Information Systems in Business
- Big Data Analytics
- Advanced Programming Techniques
- Visualization Techniques
- Finance and Markets