# Aaron Pandell - Resume

## Contact Information

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## Profile

Detail-oriented and results-driven software engineer with over 3 years of industry experience. Currently pursuing a graduate degree in computer engineering from the University of South Florida.

## Work Experience

**System Engineer, Tata Consultancy Services, India (11/2020 - 08/2022)**
- Provided technical support and training for key clients and new trainees.
- Implemented editable templates, increasing user engagement by 15%.
- Used SQL to analyze user data, reducing spam incidents by 40%.
- Managed AEM tasks and migrated to AWS cloud, improving scalability by 40%.

**Student Instructor Learning Assistant, University of South Florida (12/2022 - 04/2023)**
- Performed predictive analytics and designed reports using PowerBI.
- Conducted data analysis, web scraping using Python, and managed data warehouses.

**Software Developer (Intern), Indian Railways, India (12/2019 - 06/2020)**
- Enhanced asset management with IoT sensors, reducing maintenance costs by 20%.
- Developed train tracking features using Agile methodology.
- Integrated customer feedback, leading to a 20% increase in positive reviews.

## Education

**Graduate, Computer Science, University of South Florida (08/2022 - 08/2024)**
Coursework: Algorithms, Computer Architecture, Cloud Computing (AWS), AI, Data Mining, ML, DBMS.

## Skills

**Programming Languages:**
Python, Java, C, SQL, HTML, CSS, JavaScript
**Libraries:**
Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Keras
**Software:**
Tableau, Power BI, Excel, Visual Studio, Salesforce, AEM, AWS

## Certifications

- Machine Learning by Stanford University (2023)

- Data Analysis with Python by IBM (2023)
- AEM Sites Business Practitioner by Adobe (2021)
- Programming in Python by HackerRank (2020)

## Projects

### Task Tree Retrieval for Robotic Cooking

- Developed search algorithms, enhancing task retrieval efficiency by 20%.
- Published research paper on arXiv: https://arxiv.org/abs/2211.01745

### Reinforcement Learning-Based Robotic Pouring Task

- Achieved 30% reduction in task completion time using Q-learning.
- Validated in CoppeliaSim with 5% deviation from target.

### Image Classification using CNN

- Built a CNN model with 88% accuracy and 15% reduced training time.
- Achieved high precision (92%) and recall (91%) using LeNet-5.

### Analyzing Gun Violence in Schools: Tableau

- Used Tableau for visualization of school-related gun violence trends.
- Analyzed data from sources like Washington Post and Gun Violence Archive.

### Predicting Heart Failure Risk Analysis: Python

- Preprocessed and analyzed Kaggle dataset with 300 patient records.
- Used KNN, Decision Tree, and Random Forest to predict heart failure risk.