JOCELYN SHEN

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EDUCATION

Georgia Institute of Technology **Atlanta, GA**
Bachelor of Science in Computer Science *December 2025*

- Threads: Intelligence and Media

Courses: Machine Learning, Computer Organization and Programming, Data Structures and Algorithms, Introduction to Object-Oriented Programming, User Interface Design, Objects and Design, Linear Algebra

EXPERIENCE

Delta Air Lines Co-Operations Internship **Atlanta, GA**
In-Flight Services Data Engineer Intern *May 2024 – August 2024*

- Developed 3 reusable functions for the operations utilities package, enabling data processing and automation for 20+ internal teams
- Migrated 6 jobs from AWS Glue to Lambda to reduce cloud computing costs and resource allocation
- Investigated PySpark multithreading strategies to optimize an ETL pipeline supporting 520+ data workflows

Operations Analyst Intern *January 2023 – December 2023*
Automation of TechOps Daily Performance Summary (TODPS) Report
- Engineered a Python function to automate TODPS reporting, generating interactive tables, line graphs, and bar charts using Plotly and Pandas Styler
- Designed a structured HTML/CSS visualization dashboard for 50+ KPIs, improving clarity and user interaction
Work Package Dashboard
- Led the development of a nightly maintenance dashboard, querying and organizing aircraft work package data via SQL
- Built a dual-chart visualization system within a Tableau dashboard featuring versatile filters enabling users to customize parameters, contributing to optimized maintenance processes impacting 400+ engineers
Automated Reporting Distributed to Delta Executives
- Automated a 10-day performance heatmap with Pandas and HTML, benchmarking daily delay rates against pre-COVID performance
- Programmed the automatic inclusion of Gantt charts visualizing delay occurrences at different stations for root causes

UPS Internship **Louisville, KY (Remote)**
Airline & Transportation Solutions Frontend Developer Intern *June 2023 – August 2023*

- Enhanced the company's Planned Actual Fuel dashboard, utilized by 110+ flight dispatchers to optimize fuel allocation decisions across a fleet of 280 aircraft
- Developed 2 responsive web interfaces in Angular, collaborating directly with stakeholders to refine requirements and user experience
- Engaged with cross-functional teams to set up backend services and project build, employing Spring Boot, Apache Maven, and JFrog

PROJECTS

Multi-Class Image Classification **Atlanta, GA**
Team Member *January 2025 – April 2025*

- Designed an end-to-end image classification pipeline integrating feature extraction, PCA, feature scaling, and model training/evaluation for 3 ML models (CNN, SVM, Random Forest)
- Achieved 94.2% test accuracy with an SVM classifier by combining handcrafted image features (histogram, edge detection, Hu moments) with MobileNetV2 deep features and dimensionality reduction
- Performed quantitative evaluation using confusion matrices, ROC curves, precision-recall curves, and implemented model improvement strategies including hyperparameter tuning and ensemble learning

uniBuzzy **Atlanta, GA**
Vice President of Software Development *August 2023 – December 2023*

- Led a 7-member team to build a campus app to connect students to events, communities, and peers via a centralized platform
- Facilitated 5 team meetings to drive collaboration, guide ideation, create adaptable Figma mockups, and resolve technical issues
- Utilized Vue.js to develop a feature that randomly matches up students on campus to promote productive interactions
- Collaborated closely with the founder to deliver a pitch as 1 of the 5 teams at Startup Exchange's Summit ATL

SKILLS

Languages: Mandarin Chinese (native), English (native)
Skills & Concepts: Data Collection & Cleaning, Software Development, Agile & Scrum, Technical Writing
Software/Programming: Python, React.js, HTML/CSS, JavaScript, Java, SQL, Tableau, Git, Android Studio, TensorFlow, Keras, OpenCV, PyTorch