JVALAJ PANDEY

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EDUCATION

University of South Florida — May 2026
Bachelor of Science, Computer Science (Honors) — *GPA: 3.85 / 4.0*

Relevant Coursework: Data Structures & Algorithms, Natural Language Processing, Analysis of Algorithms, Operating Systems, Software System Development, Program Design, Discrete Structures, Computer Architecture, Computer Logic & Design, Probability & Statistics, Linear Systems

EXPERIENCE

Software Development Intern — May 2025 - Aug 2025
Nucor Steel Corporation — *Charleston, SC*

- Automated ETL & file workflows on AS/400 IFS using **Python**; eliminating **100%** manual SQL sync, foldering, emailing
- Architected **agentic AI** tool w/ C3.AI technologies, saving **20**hrs/month in analysis, alerting & report generation process
- Migrated legacy sharepoint site to **Blazor**-based full-stack app using **C#, .NET**; resolved **15+** internal tickets/bugs on old site
- Worked in **Agile** environment w/ **Azure DevOps** (2 week sprints), applying software development lifecycle & test methodologies

Software Engineer Intern — Jan 2025 - May 2025
Delta Air Lines — *Atlanta, GA*

- Built **Python** scripts with **AWS S3/Athena** integration for weekly flight & GSE usage analysis - saving **$35k+** in projected costs
- Developed forecasting model for future PM date prediction of **1,000+** assets in **DAX**, **PowerBI** - identifying **400** unserviced units
- Automated data refresh workflows across **3** pipelines using Power Automate - saving **5+** hrs/week in manual effort

Student Software Developer — May 2024 – July 2024
Judy Genshaft Honors College, University of South Florida — *Tampa, FL*

- Built full-stack purchase order approval app with **React**, **TypeScript**, **C#**, streamlining purchasing request approval workflow
- Implemented RESTful APIs (**ASP.NET Core, SQL Server**) & integrated front end with form validation for stakeholder collaboration
- Automated graduation invites via MailKit, eliminating **100%** manual work; instituted **Git** peer reviews to boost code quality

PROJECTS

IsThisPersonReal | *React, TypeScript, Python, Gemini API, Hugging Face Spaces* — Link

- Leveraged **Google's Gemini API** for asynchronous, context-aware web scraping to synthesize public data into verifiable profiles
- Integrated an AI image detection **ML** model deployed on Hugging Face Spaces via a RESTful API endpoint for analysis
- Developed a responsive **React/TS** frontend with robust state management and dynamic UI updates for a seamless user experience

Breathe AI | *Python, Streamlit, Librosa, Scikit-learn* — Link

- Built an end-to-end cough audio classification app in **Streamlit** with data ingestion, preprocessing, and real-time prediction
- Used **Librosa** to extract 31 time-series features like rhythm, pitch, and energy from raw audio for accurate ML classification
- Tuned a **Gradient Boosting** model with cross-validation and hyperparameter search, achieving **78%** classification accuracy

ChemShop | *React, MongoDB, ExpressJS, Node, Tailwind* — Link

- Developed a scalable pharmacy e-commerce app with **React**, **Node**, **Express**, **MongoD**B; architected service APIs
- Implemented secure **REST APIs**, Razorpay payments; validated with Postman integration tests to ensure reliability
- Implemented JWT **user authentication** with bcrypt passwords and role-based access control.

LEADERSHIP

Residential Assistant | *University of South Florida* — Aug 2024 - Jan 2025

- Led well-being of **33** residents by fostering inclusion and executing community-building aligned with team goals
- Resolved **10+** interpersonal & emergency issues using strong problem-solving, communication, and decision-making skills
- Collaborated w/ cross-functional teams to deliver residential wellness programs, boosting engagement & enabling scalable support
- Mentored and onboarded new residents, promoting a culture of improvement, team efficiency, and operational excellence

Tech Lead | *Google Developer Student Club* — Jan 2023 - Aug 2023

- Led 2 Python based Object Oriented Programming & GitHub workshops for **20+** developers, teaching branching, rebasing, pull requests, CI/CD
- Mentored teams prepare for Google Solution Challenge in full-stack development; helped in code reviews/debugging

TECHNICAL SKILLS

Languages: Python, C#, JavaScript, TypeScript, SQL, C, C++, HTML/CSS, DAX
Frameworks: React, Angular, Bootstrap, Node.js, Express, Flask, Tailwind, REST API, MongoDB, GraphQL, ASP.NET
Tools: Git, AWS, Athena, S3, Power BI, TeraData Studio, Pandas, Numpy, Scikit-learn, Matplotlib, Seaborn, Tailwind Git, AWS, Docker, Kubernetes, PostgreSQL, Azure DevOps, Jira, Confluence, Streamlit, Firebase, Linux
Concepts: Fullstack Development, Software Engineering, Backend Development, Frontend Development, Machine Learning, Networking, Object Oriented Programming OOP, Cloud Computing, Database Design, Infrastructure Engineering, DevOps, Agile Technologies