

# 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, Software Engineering, Program Design, Discrete Structures, Computer Architecture, Computer Logic & Design, Probability & Statistics

## EXPERIENCE

### Software Development Intern

May 2025 - Aug 2025

Nucor Steel Corporation

Charleston, SC

- Refactored legacy internal site to scalable web-app w/ React, Tailwind, C#/.NET; resolved 15+ bugs & backlog tickets
- Engineered LLM powered search tool using Python, GPT-4o; saved 20hrs/month in analysis & report generation
- Streamlined data updates on IBM AS/400 server w Python scripts; cut manual SQL sync & saved 10+ hrs/wk
- Collaborated on Azure DevOps (2-week sprints); applied SDLC & test methodologies; reduced backlog by 30%

### Software Engineer Intern

Jan 2025 - May 2025

Delta Air Lines

Atlanta, GA

- Shipped Python scripts with AWS S3/Athena integration for GSE usage analysis - saved \$35k+ in projected costs
- Developed forecasting model for PM date prediction of 1,000+ assets using Python, Pandas, SQL; flagged 400 units
- Deployed serverless ETL pipelines in AWS Lambda, S3 to refresh data - reduced manual effort by 5+ hrs/wk

### Teaching Assistant

Aug 2025 – Present

University of South Florida (Program Design)

Tampa, FL

- Mentored 60+ students in advanced C programming, emphasized efficient, modular, and maintainable code design
- Increased assignment completion by 18% by leading problem-solving sessions and coding walkthroughs

### Software Developer

May 2024 – July 2024

Judy Genshaft Honors College, University of South Florida

Tampa, FL

- Built full-stack purchase order app with React, TypeScript, C#, streamlined approval for 3,000 users
- Ensured security and data integrity by creating REST API endpoints with authentication & SQL Server integration

## PROJECTS

VS Chat | Python, AWS Lambda, API Gateway, DynamoDB, JavaScript, Node.js

[Link](#)

- Built & published VS Code instant chat extension with AWS Lambda for serverless compute, scaling for 80+ users
- Implemented WebSocket APIs via AWS API Gateway for messaging & DynamoDB supporting 200+ sessions tracking
- Bundled into a Node.js VS Code terminal client - enabled instant messaging in terminal with <100ms latency

ChemShop | React, MongoDB, ExpressJS, Node, Tailwind

[Link](#)

- Deployed pharmacy e-commerce store app with React, Node, Express, MongoDB; designed secure, efficient APIs
- Created REST APIs w/ Razorpay integration; validated with Postman, optimized queries to cut load time 99%
- Enhanced security by creating endpoints with JWT auth, bcrypt password hashing, & role-based access

## LEADERSHIP

Residential Assistant | University of South Florida

Aug 2024 - Jan 2025

- Directed well-being of 33 residents by leading community programs aligned with university goals and team values
- Resolved 10+ conflicts through problem-solving, communication, and leadership, improving satisfaction and harmony

## 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