

# Neha Pudota

346-246-8876 | [npudota@purdue.edu](mailto:npudota@purdue.edu) | [www.linkedin.com/in/neha-pudota](https://www.linkedin.com/in/neha-pudota)

## EDUCATION

### Purdue University

West Lafayette, IN

*Bachelor of Science in Computer Science (Minor in Supply Chain Engineering Technology)*

*Expected May 2027*

- GPA: 3.64 | Dean's List, Semester Honors
- Relevant Courses: Object Oriented Programming - Java (CS 180), Multivariable Calculus (MA 261), Programming in C (CS 240), Discrete Mathematics (CS 182), Linear Algebra (MA 265), CS Tools (CS 193)

### Klein Cain High School

Klein, TX

*Summa Cum Laude, Rank 17/958*

*May 2024*

## EXPERIENCE

### Software Engineer Intern

May 2025 - Aug. 2025

*Halliburton - Landmark Team*

*Houston, TX*

- Developed a scalable MCP server from scratch using FastAPI, SQL, OData, and Docker, enabling secure real-time access to Halliburton's DSIS well data.
- Deployed via Kubernetes; integrated LangChain for NLP and dynamic query generation in a chatbot interface.
- Built a React + Vite + Tailwind frontend with RESTful chatbot integration, real-time messaging, markdown support, and WebGL-based 3D viewer.

### Software Developer

Aug. 2024 - May 2025

*The Data Mine, Corporate Partners - Purdue University*

*West Lafayette, IN*

- Working with agricultural-tech startup AgRPA to implement weed-detection software for drones using Python, enhancing precision in herbicide application
- Developed semantic segmentation and localization models using UAS drone images with multi-spectral imaging to accurately detect and locate weeds during real-time flight, improving efficiency by 50%.
- Aim to identify weeds using deep-learning model YOLO V8 and minimize the amount of herbicides used per acre

### Python Course Instructor

Jun. 2023 - Jul. 2023

*Klein Coding Academy*

*Klein, TX*

- Offered free, in-person summer coding camp to 150+ middle schoolers from 16 schools in Northwest Houston
- Recognized by Klein ISD Newsroom and District Superintendent for impact within the community
- Developed 20+ hours of Python course instruction using CMU CS Academy

## PROJECTS

### Java Messaging App with User Management

Nov. 2024

- Developed a thread-safe messaging app using Java Swing and a database to manage users, messages, and interactions (send, delete, block, friend)
- Designed an intuitive interface for real-time messaging and user account management

## CERTIFICATIONS AND AWARDS

### Introduction to Front End Development | Meta Course

Dec. 2024

- Created a simple website using the basics of HTML, CSS, and JavaScript

### AWS Cloud Infrastructure Camper | Hosted by the AWS Cloud Club at Purdue University

Oct. 2024

- Learned about the various services AWS offers for companies (IAM, S3, VPC)

### Computer Science UIL 2024 State Qualifier

Mar. 2024

- Top 3% of 1000+ district-level competitors

## TECHNICAL SKILLS

**Languages:** Java, JavaScript, HTML/CSS, C/C++, R, Python

**Developer Tools:** Git, VS Code, IntelliJ, Google CoLab, Docker, Unix/Windows CLI

**Libraries:** Pandas, Matplotlib, PyTorch