

# PRAMISH PANDEY

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## Experience

### Full Stack Software Development Engineer

September 2025 – Present

*School of Polymer Science & Engineering, The University of Southern Mississippi*

- Spearheaded Data Engineering initiatives by architecting a full-stack platform using Django and PostgreSQL, automating data ingestion and analytics for large-scale datasets. Reduced manual entry by 97%, demonstrating operational excellence and process optimization.
- Led Front End Web Development for interactive dashboards using React and Figma, creating intuitive user interfaces. Focused on optimizing the User Experience (UX) and data visualization, ensuring complex data was accessible for non-technical stakeholders.

### Learning Assistant

August 2025 – December 2025

*Center for Faculty Development, The University of Southern Mississippi*

- Demonstrated strong Customer Service and Leadership skills by mentoring 150+ students. Also, utilized communication skills to explain complex mathematical concepts, helping build high-performing student teams and directly contributing to a 30% increase in assignment completion.

## Projects

### Polymer Morphology: Web-based pool of Polymer Samples

[Website](#) ⚡

- built a full-stack platform using Django and PostgreSQL, automating data ingestion and analytics for large-scale datasets. Reduced manual entry by 97%, demonstrating operational excellence and process optimization.
- Led Front End Web Development for interactive dashboards using React and Figma, creating intuitive user interfaces. Hosted in Google Cloud using Cloud run, Neon Database, and Firebase.

### PolyVision: Cross-Platform App for Polymer Image Analysis & Visualization

[GitHub](#) ⚡

- Engineering a cross-platform desktop application in modern C++ and Qt 6 for polymer image analysis and visualization, supporting advanced segmentation, synthetic image generation, and publication-ready chart exports for microscopy workflows.
- Architecting modular analysis pipelines with batch processing, plugin-ready extensibility, and interactive GUI built on MVC/MVVM design, leveraging CMake, Qt Charts/QCustomPlot, OpenCV, and integrated automated testing for robust and portable scientific software.

### Mentally: Web App for Mental Health Education Using Augmented Reality

[website](#) ⚡

- Designed, built and deployed an AWS hosted web application using Flask, A-Frame, AR.js, and Jinja2, delivering augmented reality (AR) experiences, interactive simulations, and empathy building modules for 100 to 300 users in a multiweek pilot.
- Developed and maintained CI/CD pipelines using Docker and GitHub Actions, resulting in a 80% reduction in deployment time and increased code quality.

## Education

### The University of Southern Mississippi

Jan 2024 – Present

*Bachelor's of Science in Computer Science*

- **GPA:** 4.00
- **Relevant Coursework:** Computer Systems, Computer Networks, Algorithms, Web Development, Cloud Computing, Data Center Networks, Machine Learning, Cybersecurity, Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems, Secure Software Development, Mathematics, Microservices, Operating Systems.

## Skills

Agile, Angular, Apache, AWS, C#, C++, Google Cloud, CSS3, Customer Service, DevOps, Django, Docker, Figma, Flask, Git, GitHub Actions (CI/CD), Go, GraphQL, HTML5, Java, JavaScript (ES6+), Jenkins, Kotlin, Kubernetes, Linux, MongoDB, Node.js, NumPy, Nginx, OpenCV, Pandas, Pillow, Plotly, PostgreSQL, Python, PyTorch, Qt, React, Redux, Ruby, Rust, SaaS, mySQL, SQLite, TypeScript, VMware, Excel, PowerPoint, Word, Outlook

## Honors & Awards

President's List (Spring 2024, Fall 2024, Spring 2025, Fall 2025)