

# Saleep Shrestha

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## EDUCATION

### The University of Southern Mississippi (USM), Hattiesburg, MS

Bachelor of Science in Computer Science, Honors Discovery Scholar, 4x Presidents List

May 2027

GPA: 4.00

Relevant Courses: Hacking for Defense (H4D), Data Structures and Algorithm, Software Development

## EXPERIENCES

### Student Ambassador

IBMz Mainframe

July 2025 - Present

Hattiesburg, MS

- Lead the IBM Z Student Group at USM, organizing weekly meetings, workshops, and campus-wide events to raise awareness of mainframe technology
- Promoted IBM Z Xplore by onboarding peers and guiding them through COBOL and z/OS learning, increasing student participation in mainframe education

### Software Development Associate

ArroyoDev (Illumibot)

April 2025 - Present

Hattiesburg, MS

- Increased partner projector sales by 15% by developing a projector recommendation system on the Illumibot website, using user-input data and implementing React-based UI components with real-time data triggers for brands like BenQ
- Automated transactional email and SMS delivery by integrating the Brevo API into FlutterFlow's backend, reducing manual effort by 10% and improving response times by 20%
- Boosted content processing efficiency by 31% by implementing API workflows to automate transcript generation, summarize content with GPT, and deliver key notes to Frame.io for 1,000+ videos
- Automated and managed support tickets from the Illumibot app, addressing general projector questions, technical issues, shipping status/problems, pre-orders, and Atmos customer sync, increasing response efficiency and customer satisfaction by 20%

### Full-Stack Developer

Retina MS

April 2025 - Present

McComb, MS

- Revamped the Retina MS website by modernizing the design, adding insurance verification features, and building secure patient data collection forms used by 1000+ patients annually, improving usability and transparency
- Collaborated with clients and patients to gather requirements and translate them into functional solutions, while designing kiosk displays and presentation slides to strengthen patient engagement and brand visibility

### Undergraduate Research Assistant

School of Computing Sciences and Engineering, USM

Feb 2024 - May 2025

Hattiesburg, MS

- Enhanced phishing detection research by preprocessing and analyzing 1,000+ email samples, improving dataset accuracy by 10% using Python and predictive modeling techniques
- Led data cleaning, feature engineering, and automation scripting for a 5-person research team, boosting overall efficiency by 15%

## PROJECTS

### Mr. Grammar

Full-Stack Developer, Chrome Extension

March 2025 - Present

Extension link

- Developed the Chrome Extension "MrGrammar" using React.js and Express.js, achieving a 5-star rating in the Chrome Web Store and strong user adoption
- Implemented real-time grammar and spelling correction with the OpenAI API, enhancing writing quality for thousands of users
- Built scalable API integrations and a seamless, user-friendly browser interface, ensuring high performance and positive user experience

### RecruitVision (H4D / DS4D)

Team Lead, Full-Stack Developer, Data Analyst

Jan 2025 - May 2025

- Engineered a Python-based geospatial data pipeline, mapping 30,000+ Marine recruit addresses to precise congressional districts using Census API and TIGER shapefiles
- Automated district-level recruiting reports and developed interactive dashboards with Power BI and ArcGIS Pro, improving data accessibility by 15% and reducing reporting time by 25% for the U.S. Marine Corps
- Collaborated directly with the U.S. Marine Corps, conducting 90+ expert interviews to guide MVP development and ensure alignment with critical congressional reporting workflows

## TECHNICAL SKILLS

**Languages:** Python, C++, C#, React, JavaScript, C, R, SQL, COBOL

**Tools & Frameworks:** Pandas, Numpy, ArcGIS, Matplotlib, Scikit-Learn, IBMz, Brevo, Twilio API, BeautifulSoup

**Concepts:** Machine Learning, Regression Analysis, Quantitative Data Modeling, Geospatial Analysis

**Additional Skills:** Multilingual Support Integration, REST APIs, Data Visualization, Data Scraping