

Asta Shakti Suman Sharma

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EDUCATION

The College of Idaho
Bachelor of Science in Computer Science, Minors: Psychology, Journalism, Literature & Creative Writing
Specialization: Data Science

Dec 2025

TECHNICAL SKILLS

Programming Languages: Python, R, SQL, JavaScript, HTML, CSS (Tailwind), PHP
Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Excel, Power Query, Relational Databases, Data Modeling, LaTeX
Machine Learning & Statistics: Linear & Logistic Regression, Classification, Decision Trees, Predictive Modeling, Cross-Validation
Web Development & APIs: REST API, FastAPI, Flask, React, Laravel, Vue.js, JSON, JSON/CSV Data Handling
Database Management: PostgreSQL, SQLite, MySQL, Data Querying, Schema Design
Development Tools & Platforms: Git, GitHub, Jupyter Notebook, VS Code, Automation Scripts
Soft Skills: Problem-Solving, Analytical Thinking, Attention to Detail, Collaboration, Adaptability, Time Management

EXPERIENCE

Software Engineering Intern
SaturnTime

Sept 2025 – Present
Nampa, ID

- Developing and optimizing time-tracking software improving scheduling efficiency by 30%.
- Building frontend interfaces with **Vue.js** and backend APIs using **PHP & Laravel** for real-time logs and reporting.
- Implementing new features, fixing bugs, and enhancing performance for a smoother user experience.
- Collaborating with engineers and product leads in agile sprints to deliver scalable, production-ready code.

Product Management Data Intern
Western Power Sports (WPS)

June 2025 – Aug 2025
Boise, ID

- Analyzed 300,000+ product records using **R & Python** to identify data gaps and guide targeted audits.
- Evaluated 800+ hierarchical classifications, reducing miscellaneous categories by 70–80% and improving user experience.
- Created standardized SOP for attribute association and developed a visual product hierarchy tree reducing misclassifications by 68%.
- Collaborated across departments to validate findings and support strategic planning initiatives.

Astrophysics Research Assistant Intern
Murdock @ The College of Idaho

May 2024 – May 2025
Caldwell, ID

- Developed Python-based automation scripts reducing manual data processing time by 40%.
- Enhanced wavelength calibration algorithms improving accuracy of stellar radial velocity computations by 70%.
- Worked with large datasets to develop and test software tools for the **KOSMOS Image Reduction pipeline**.
- Presented findings at academic conferences and collaborated with cross-functional research teams.

PROJECTS

AI Librarian (In Progress) | *Python, FastAPI, PostgreSQL, React*

- Building a full-stack AI-powered book recommendation and personal reading tracker system.
- Implementing a REST API backend with **PostgreSQL** for scalable data storage.
- Developing an interactive UI for book tracking and personalized recommendations.

To-Do List Tracker | *Python, FastHTML, SQLite*

- Built a lightweight task management application for organizing daily tasks.
- Integrated **SQLite** database storage for persistent data management.
- Designed a FastHTML-based UI for efficient and fast rendering.

Invitation Generator | *Python*

- Built a script to automate invitation creation for campus events, reducing formatting time by 70%.
- Used string templating for quick, customizable batch generation of event invites.
- Streamlined ASA outreach and standardized communication across multiple events.

LEADERSHIP & CERTIFICATION

Honors in Intro to Web Development (CodePath)

Nov 2024