

# AYUSH SHRESTH

✉ ayush.shresth17@gmail.com | 🌐 Github | in LinkedIn | ☎ +1 (669)213-9948

## EDUCATION

**San Jose State University** Anticipated Graduation: December 2024  
**Bachelor of Science in Software Engineering** Cumulative GPA: 3.70/4.00  
• President's Scholar, Dean's List Spring 2021 - Present  
**Coursework:** Advanced Data Structures & Algorithms, Advanced Calculus, DBMS, Discrete Mathematics, Engineering Probability, Information Security, Object-oriented Programming, Linear Algebra, Software Engr Process Management

## TECHNICAL STRENGTHS

<b>Languages &amp; Databases</b>	C, C++, Java, MongoDB, MySQL, PHP, Python3
<b>Web Technologies</b>	Bootstrap, CSS3, HTML5, JavaScript, Rest API, Redux
<b>Framework &amp; libraries</b>	GeoPy, Graph QL, Matplotlib, Node.js, OSMNX, Pandas, React.js, StreamLit
<b>Tools</b>	Eclipse, Git, GitLab, IntelliJ, Visual Studio Code
<b>Platforms</b>	Linux, MacOS, Windows

## EXPERIENCE

**Indian Institute of Technology, Patna** Bihar, India  
**Software Engineering Research Intern** June 2022 - August 2022  
• Developed from scratch a web application with an interactive map for Electronic Vehicles  
• Implemented requirements such as shortest route, navigation steps, estimated time & energy to get 80% optimal results  
• Collected data from 40+ EV charging stations in Bihar to engineer the most efficient routes  
• **Technology used:** Dash-Plotly, GeoPy, Node.js, OSMNX, Python3, PyXLL, React.js

## PROJECTS

**Phishing Machine Learning Project**  
• Built a machine learning powered application to detect phishing URLs and emails  
• Trained the model with Random Forests Classifier and Logistic Regression algorithms to achieve 96% and 99% accuracy  
• Designed a web scrapping tool to feed a vector of 10 features to train the model  
• **Technology used:** BeautifulSoup, Python3, Scikit-learn. Tkinter

**Stack overflow simulation Project**  
• Designed a highly scalable, secure, and interactive Stack overflow prototype using MERN stack and Apache Kafka  
• Emphasized on Q/A dynamics, tags, ratings, badges, and analytics features  
• Incorporated a search API with multi-criteria filtering enhancing user experience and data accessibility  
• **Technology used:** Express, JWT, Kafka, MongoDB, Node.js, React.js, Redux

**Etsy Prototype Project**  
• Developed a fully functional Etsy inspired Prototype web application using MERN stack  
• Implemented Graph QL to receive data from the client for up to 2x efficiency and faster network efficiency  
• Integrated react Redux for dynamic currency update capabilities  
• **Technology used:** Express, Graph QL, MongoDB, Node.js, React.js, Redux

**Suite Spot Project**  
• Leveraged Agile and Scrum methodologies to manage a team of 10 members, ensuring collaboration and adaptability  
• Integrated a dynamic filtering system, allowing users to search for location, price range, and amenities preferences  
• Deployed the application using Microsoft Azure Web Apps, ensuring seamless accessibility and optimal performance  
• **Technology used:** CSS, HTML, MongoDB, Node.js, React.js,

## ACHIEVEMENTS & INVOLVEMENTS

Established the Eta Beta chapter of Alpha Sigma Phi fraternity at SJSU as a Founding Father	January 2022 - Present
• Serving as a President with a commitment to leadership and responsibility	
Active member of Computer Science Club at SJSU	August 2022 - Present
Contributed as a Student Assistant in New Students and Family Programs for Orientation	June 2023 - Present
Certified in The Leadership and Career program at San Jose State University	January 2022 - May 2022