

# SUMIT SUNIL PADWAL

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## EDUCATION

Illinois Institute of Technology, Chicago, IL  
**Master of Science, Computer Science**

Expected Graduation – May 2026

Ajeenka D Y Patil University, India  
**Bachelor of Science, Computer Engineering**, GPA 3.2

Graduated - May 2024

## EXPERIENCE

<b>Bharat Intern   Data Science Intern</b>	Jul 2023 - Aug 2023
<ul style="list-style-type: none"><li>Constructed 5 Python-based data solutions, boosting workflow efficiency by 30% and data accuracy by 25%.</li><li>Expedited bug resolution by 40%, ensuring 95% on-time project completion.</li></ul>	
<b>TechnoHacks   Python Developer Intern</b>	Jun 2023 - Jul 2023
<ul style="list-style-type: none"><li>Engineered 3 service-oriented applications using Python, slashing processing time by 40%.</li><li>Streamlined software stack modernization, delivering 5 solutions that enhanced project performance by 25%.</li></ul>	
<b>Internshala   Web Developer Intern</b>	Jun 2020 - Jul 2020
<ul style="list-style-type: none"><li>Formulated a fully functional web application using HTML, JavaScript, and Bootstrap.</li><li>Optimized a responsive web application in four weeks, elevating daily active users by over 150%.</li></ul>	

## PROJECTS

<b>AI Teamwork Strategist</b>	Dec 2025
<ul style="list-style-type: none"><li>Developed a multi-agent AI system in Python leveraging <b>LLMs</b> and NLP via <b>LangChain</b> to automate SDLC workflows (Waterfall &amp; Agile).</li><li>Built <b>role-based AI agents</b> (Product Owner, Scrum Master, Developer, QA, DevOps, Security) for automated backlog creation, user stories, sprint planning, and effort estimation.</li><li>Evaluated AI-driven Agile vs Waterfall planning for flexibility, scalability, and estimation accuracy.</li></ul>	
<b>University AI Chatbot</b>	May 2025
<ul style="list-style-type: none"><li>Developed an AI university chatbot in <b>Python</b> using <b>NLP</b> and <b>ML</b> for student query classification.</li><li>Applied <b>TF-IDF</b> and Multinomial Naïve Bayes, expanding training data 4.7x with spaCy NER-safe <b>augmentation</b> to improve accuracy and robustness.</li><li>Performed model tuning with <b>GridSearchCV</b> and deployed via <b>Flask REST APIs</b> for real-time query handling.</li></ul>	
<b>Currency Converter</b>	Sep 2024
<ul style="list-style-type: none"><li>Developed a <b>full-stack web application</b> for currency conversion, utilizing JavaScript, HTML, and CSS, while integrating real-time data retrieval via an exchange rate <b>API</b>.</li><li>Implemented interactive features in the <b>front-end development</b>, driving a 40% increase in user engagement.</li></ul>	
<b>Grievance Redressal System using SMTP Protocol</b>	May 2024
<ul style="list-style-type: none"><li>Composed a grievance redressal system with JavaScript, PHP for <b>frontend</b>, &amp; SQL for <b>backend</b>, Reducing processes by 50%.</li><li>Deployed backend workflow and secured credentials using the <b>SMTP</b> protocol.</li></ul>	

## SKILLS

- Languages:** C++, Java, Python, HTML, CSS, JavaScript, ReactJS, Go
- Database:** SQL, MySQL (Oracle), NoSQL (MongoDB)
- Tools & Technologies:** Git, GitHub, VMware, Terraform, Selenium, DevOps, Networking, Operating Systems (Windows, Linux), Big data(Hadoop), Flask, LangChain, LLMs.
- Development Methodologies:** Full Stack Development, Data Structures & Algorithms, Object-Oriented Programming, SQL & Relational Databases.

## CERTIFICATE

Python Basics - [University of Michigan](#)

Teamwork Skills: Communicating effectively in groups - [University of Colorado Boulder](#)

Exploratory data analysis for machine learning - [IBM](#)

Cyber hygiene Practices - [Ministry of Electronics & Information Technology](#)

Software Testing Tutorial - [Great Learning](#)

## PUBLICATIONS

**Title:** Grievance Redressal System using SMTP Protocol, **Journal Name:** (ICICCD),

**Issue:** Paper ID: CMT-311- Cat B 30, May 2024

**Title:** A Survey on Grievance Redressal System, **Journal Name:** (IJRCE),

**Issue:** e-ISSN: 2320-9801, Volume 11 Issue 12, December 2023

**Title:** An Online Shopping System using Password for Login through SMS, **Journal Name:** (IJRSET),

**Issue:** e-ISSN: 2319-8753, Volume 10 Issue 5, May 2021