

# SATWIK BHASIN

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## EDUCATION

**Master of Science**, Computer Science, GPA: 3.53/4.0

*Aug 2022 – May 2024*

**University at Albany**, Albany, NY

**Key Courses:** Software Engineering, Data Mining, Operating Systems, Algorithms & Data Structures, Computer Organization, Artificial Intelligence

**Achievement:** Outstanding Master's Capstone Award for integrating AI in classrooms with Master's Project

**Bachelor of Technology**, Information Technology

*Aug 2018 – May 2022*

**Guru Gobind Singh Indraprastha University**, Delhi, India

**Key Courses:** Analysis and design of Algorithm, Data structure, Relational Database Management System, Operating system, Computer Network, System Programming, Theory of Computation, Advanced Java, Web Technology, Compiler Organization

## SKILLS

**Programming languages:** Java, Python, C, C++, JavaScript

**Databases:** SQL, MySQL, MS SQL, PostgreSQL, MongoDB, Oracle

**Web Development:** PHP, HTML, CSS, XML, React.js, Express.js, JQuery, Node.js, Next.js

**Tools/Platform/Framework:** Azure, AWS, Git, SpringBoot, PostMan, Docker

**Libraries:** pandas, NumPy, Matplotlib, TensorFlow, Sci-kit learn, Open Cv

## EXPERIENCE

**Software Engineer Intern, Sugul & Damani, Gurugram, India**

*May 2022 - July 2022*

- Use of Model-View-Controller pattern to implement microservices for user authentication RESTful API's.
- Leveraged SpringBoot to accelerate the development rate of API's by 40%.
- Improved microservices performance through caching, achieving a 20% reduction in response time
- Implemented rigorous Test-Driven Development (TDD) procedures, leading to a 25% decrease in post-deployment bugs

**Software Engineer Intern, India Meteorological Department, Delhi, India**

*Aug 2021 - Oct 2021*

- Utilized GeoDjango to map rainfall, storm, and drought data, boosting analysis speed by 60%
- Enhanced data analysis, achieving a 30% faster extraction of insights from visualized datasets
- Refined data visualization for meteorological statistics, ensuring a more informative map representation

**Software Engineer Intern, Steel Authority of India Limited, Delhi, India**

*Apr 2021 - May 2021*

- Engineered an employee portal for SAIL, boosting data retrieval speed by 30% through backend optimization
- Revamped user authentication processes for the portal, achieving an impressive 20% reduction in login errors

## PROJECTS [working demo's on my website [satwikbhasin.com](https://satwikbhasin.com)]

**Evalutron** [Prompt Engineering, Next.js, Full-Stack Development]

*March 2024*

- Automated student submissions grading using prompt engineering, Next.js, and OpenAI's assistants, resulting in an 80% reduction in costs previously incurred by human graders
- With just a question file, rubric, and submission, the platform provides accurate and comprehensive grading feedback

**UniChat** [Next.js, MongoDB, ChatGPT API, Google Auth/APIs, Vercel Deployment, Discord API, Session Management]

*Jan 2024 - May 2024*

- AI-driven platform that facilitates seamless collaboration on academic projects
- Functionalities: group AI chat, work on a document with AI, chat with team members on discord
- Won Outstanding Master's Capstone Award for integrating AI in classrooms

**VirtualVault** [React.js, Bootstrap, Express.js, MongoDB, AWS EC2 Deployment, AWS S3, Selenium]

*May 2023 - August 2023*

- A digital portfolio management system as a web application designed to streamline the management of product catalogs and product owner contact information
- This system empowers both users and administrators to efficiently interact with product listings and contact details

**Piece - Social Media Player** [Java, MySQL, JavaFX, CSS, Scenebuilder, GitHub]

*May 2022 – July 2022*

- A desktop app having music streaming capabilities combined with social media features. It allows users to enjoy music while also expressing their personality through their unique music preferences
- One of the key features is the ability to find and connect with other users who share similar music likes

## EXTRA CURRICULAR

• **Teaching Assistant, CS Department - University at Albany**, Albany, NY

*Jan 2023 - May 2024*

Responsible for assisting, grading, and managing graders for various courses including Algorithms & Data Structures[Master's Level], Data Mining, Database Systems, and Operating Systems while also offering dedicated student support during office hours for homework and exam preparation