# 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
**Courses**: Software Engineering, Data Mining, Operating Systems, Algorithms & Data Structures, Computer Organization, Artificial Intelligence
**Recognition:** 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
**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, Sugal & Damani, Gurugram, India** *May 2022 - July 2022*
- Use of Model-View-Controller pattern to implement microservices for user authentication RESTful API's. Leverated SpringBoot to accelerated the development of API's by 40% upon joining the team
- Improved microservices scalability through caching, achieving a 20% reduction in response time
- Contributed to implementing 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
- Collaborated on refining data visualization for meteorological stats, 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]

**Evalutron** *[Prompt Engineering, Next.js, Full-Stack Development]* *March 2023*
- Leveraging prompt engineering, Next.js, API integration, and OpenAI's assistants, Evalutron automates grading tasks
- With just a question file, rubric, and submission, our platform provides accurate and comprehensive grading feedback
- By integrating AI, Evalutron significantly reduces the time and resources spent on grading student submissions

**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 connection 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*
- VirtualVault is 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 three courses (Data Mining, Database Systems, and System Fundamentals), while also offering dedicated student support during office hours for homework and exam preparation