

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

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

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 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]

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

March 2024

- Automated grading tasks 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

Jan 2024 - May 2024

, Session Management]

- 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

- 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