

SATWIK BHASIN

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EDUCATION

Master of Science, Computer Science, GPA: 3.42/4.0

Aug 2022 – May 2024[Expected]

University at Albany, Albany, NY

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

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

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

EXPERIENCE

Software Engineer Intern, Sugal & Damani, India

May 2022 - July 2022

- Use of Model-View-Controller pattern to implement microservices for user authentication RESTful API's. With the help of SpringBoot, 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

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

March 2023 - Present

- 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 technology, Evalutron significantly reduces the time and resources spent on grading student submissions.

Digital Portfolio Management System [React.js, Bootstrap, Express.js,

May 2023 - August 2023

MongoDB, AWS EC2 deployment, AWS S3, Selenium]

- The Digital Portfolio Management System is a comprehensive 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

ReactSkillCrafter - A project built during react learning journey [React.js, Express.js,

Jan 2023 - May 2023

MongoDB Atlas Cluster, Mongo Local, AWS EC2 deployment, Docker, Reverse Proxy, Session Management]

- Developed during Master's level Software Engineering class in the form of subsequent assignments
- Has various functionalities such as inventory management, calls 3rd party API's, backend API calls, CRUD operations

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 2024 - May 2024

Assisting [Teaching, Grading & Managing Graders] 3 classes [Data Mining, Database Systems & System Fundamentals].

• **Peer Teacher, CS Department - University at Albany**, Albany, NY

Jan 2023 - Dec 2023

Efficiently managed time during scheduled office hours, providing dedicated assistance to students in solving questions related to homework and exam preparation. Demonstrated strong interpersonal and communication skills.