

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, USA

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

Achievement: Won Outstanding Master's Capstone Award for AI integration in classrooms (UniChat - Linked Below)

Bachelor of Technology, Information Technology, GPA: 3.65/4.0

Aug 2018 – May 2022

Guru Gobind Singh Indraprastha University, Delhi, India

Key Courses: Analysis and design of Algorithm, Data Structures, RDBMS, Operating Systems, Computer Networks, Theory of Computation, Advanced Java, Web Technology, Compiler Organization

SKILLS

Programming Languages: Java, Python, C, C++, JavaScript

Databases: SQL (MySQL, PostgreSQL, MS SQL), NoSQL (MongoDB, Redis), ORM tools

Web Development: PHP, HTML, CSS, XML, React.js, Express.js, jQuery, Node.js, Next.js, RESTful APIs, Responsive Design

Tools/Platforms/Frameworks: Azure, AWS (S3, EC2), Version Control Systems (Git), Spring Boot, Postman, Docker, Jenkins, MVC Architecture, Selenium

EXPERIENCE

Software Engineer Intern, Sugul & Damani, Gurugram, India

May 2022 - July 2022

- Implemented Model-View-Controller pattern for microservices handling user authentication RESTful APIs.
- Used Spring Boot to expedite API development, increasing development speed by 40%.
- Enhanced microservices performance with caching, reducing response time by 4ms
- Partnered with cross-functional testers for efficient, bug-free development.

Software Engineer Intern, India Meteorological Department, Delhi, India

Aug 2021 - Oct 2021

- Utilized GeoDjango for mapping weather data, accelerating analysis by 60%.
- Richer data analysis, achieving a 30% faster extraction of insights from visualized datasets.
- Refined meteorological statistics visualization, resulting in more informative maps.

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

Apr 2021 - May 2021

- Implemented bcrypt password hashing and salting in the employee portal enhancing security
- Boosted data retrieval speed by 15% through query optimization and efficient indexing using Hibernate ORM

PROJECTS [more on satwikbhasin.com]

Evalutron [Prompt Engineering, Next.js, Full-Stack Development]([Open](#))

March 2024 - March 2024

- Automated student submission grading using Prompt Engineering with OpenAI assistant, resulting in an 80% reduction in grading costs previously incurred by human graders
- Provided accurate and comprehensive grading feedback with just a question file, rubric, and submission

UniChat [Next.js, MongoDB, ChatGPT API, Google Auth/APIs, Vercel Deployment, Discord API, Session Management, CSS Tailwind]([Open](#))

Jan 2024 - May 2024

- Engineered an AI-driven platform for seamless collaboration on academic projects
- Integrated features such as group AI chat, AI-powered document collaboration, and Discord integration for team communication
- Received the Outstanding Master's Capstone Award for innovative AI integration in educational environments

VirtualVault [React.js, Bootstrap, Express.js, MongoDB, AWS EC2 Deployment, AWS S3, Selenium]([Open](#)) *May 2023 - August 2023*

- Developed a user-friendly web-based platform to simplify the process of product advertising
- Enhanced businesses' advertising efforts by streamlining product catalog and contact management, facilitating effective audience targeting

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

May 2022 – July 2022

- Engineered a desktop application merging music streaming with social media functionalities
- Designed an intuitive user interface for seamless navigation and enhanced user engagement

EXTRA CURRICULAR

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

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