SATWIK BHASIN

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EDUCATION

Master of Science, Computer Science — *Graduated 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 — *Graduated 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, TypeScript
Databases: SQL (MySQL, PostgreSQL, SQLite), NoSQL (MongoDB, Redis), ORM tools
Web Development: PHP, HTML, CSS, XML, React.js, Express.js, Node.js, Next.js, REST APIs, Responsive Design, Django
Tools/Platforms/Frameworks: AWS(including serverless architecture), Git Based Version Control Systems (GitHub, GitLabs), Spring Boot, Postman, Docker, MVC Architecture, Selenium, Google Cloud Platform

EXPERIENCE

Software Engineer Intern, Sugal & Damani, Gurugram, India — *May 2022 - Jul 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)** — *Mar 2024 - Mar 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 - Aug 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 – Jul 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