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, Sugal & 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