Bibas Kandel

Hattiesburg, MS
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PROFESSIONAL SUMMARY

Highly motivated and results-oriented computer science student with a strong foundation in software development and a passion for creating impactful applications. Actively seeking opportunities to apply technical expertise in a dynamic and innovative environment.

EDUCATION

The University of Southern Mississippi *Expected Graduation: May 2027*
Major: Computer Science *GPA: 4.0*
Minor: Mathematics and Information Technology

Relevant Coursework:

- Probability and Statistics
- Linear Algebra
- Software Development
- Data Structures

WORK EXPERIENCE

Academic Tutor **Aug 2024 – Present**
School Of Computing, University of Southern Mississippi *Hattiesburg, MS*

- Tutored daily in Discrete Math, C++, and Python, boosting problem-solving and increasing course pass rates by 25%.
- Developed custom study guides, improving homework accuracy by 30% and increasing student confidence.
- Led dynamic group workshops, resulting in a 20% increase in attendees' overall test scores.

PROJECTS

Secure Coding Exam Web Application — Exium GitHub **Dec 2024 - Present**

- Engineered a secure web application for coding exams using Monaco Editor and Judge0 API, achieving 99.9% uptime for 100+ simultaneous students.
- Implemented exam monitoring and lockdown features, resulting in a 75% reduction in cheating incidents.
- Deployed on Azure Virtual Machines, optimizing resource use and reducing operational costs by 30%, ensuring scalability.

Mathematical Animation Generator — Manimator GitHub **Nov 2024 - Dec 2024**

- Directed development of a tool using Open AI API and Flask backend to generate math animations from prompts, increasing student engagement by 40%.
- Collaborated on React frontend features, improving UI responsiveness by 60% with positive feedback from 200+ users.
- Led usability testing, achieving a 75% reduction in technical issues during student pilot sessions.

Event Management Application — CheckED GitHub **Aug 2024 - Dec 2024**

- Spearheaded design and development of CheckED using C# and .NET MAUI, resulting in a 40% reduction in event planning and advertising.
- Engineered user authentication and RSVP features, improving guest check-in efficiency by 60% during peak events.

Sudoku Solver Application — Sudoku Solver GitHub **Aug 2024 - Dec 2024**

- Developed a modern Sudoku solver using Qt6 and C++17 with a sleek dark/light-themed GUI.
- Implemented an efficient Ternary Search Tree algorithm, reducing average solving time by 60% with 99.9% accuracy.
- Collaborated with 4 developers to optimize performance, reducing memory usage by 40% and improving responsiveness.

SKILLS

- **Programming:** Python, SQL, C++, C#
- **Cloud:** Azure (Basic), AWS (Basic)
- **Machine Learning:** Scikit-learn
- **Statistical Analysis:** Hypothesis Testing, Regression, Time Series
- **Data Tools:** Pandas, NumPy, Matplotlib, Seaborn