Al Amin

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Intrigued by computer science and astronomy, I see the potential for subtle yet impactful contributions. Recognizing the possibilities, I believe that integrating computer science into astronomy could offer incremental advancements, modestly expanding our understanding of the universe and subtly influencing technological improvements that may enhance aspects of human life.

SKILLS

- HTML
- CSS
- JavaScript
- Java
- Unity
- C
- Python
- ActionScript
- ORM
- Handlebars
- Pseudocode
- Git
- NoSQL
- MySQL
- SQL
- MongoDB
- Mongoose
- jQuery
- PWA
- Tailwind
- Node.js
- Express.js
- React
- MERN
- Wireframing
- MVC
- JSON
- OOP
- API
- Linux

EXPERIENCE

Lentura – Full Stack

September, 2023 – April, 2024

- Leveraged Python programming language to implement robust security measures, ensuring data integrity and confidentiality within Linux environments.
- Implemented cryptographic algorithms such as AES (Advanced Encryption Standard) in Python for data encryption and decryption, enhancing data security protocols.
- Employed Python frameworks like Flask or Django to enforce authentication and authorization mechanisms, ensuring secure access to sensitive functionalities within the application.
- Collaborated with the team to integrate CAPTCHAs or custom authentication solutions, enhancing the application's defense against automated attacks and ensuring a seamless user experience.
- Applied OWASP (Open Web Application Security Project) guidelines in Python to conduct regular security assessments and mitigate potential vulnerabilities, ensuring the application's resilience against cyber threats within Linux-based systems.

University of Pennsylvania – Full Stack

October, 2023 – February, 2024

- Engaged in the development of three distinct projects, showcasing a multifaceted skill set within web development. First, spearheaded the creation of a dynamic movie list website, empowering users to seamlessly search, access detailed movie information, and curate a personalized favorites list. Proficiently employed HTML, CSS, and JavaScript to ensure an optimal user experience.

- Led front-end design efforts for a Team Fortress 2 trading website, utilizing Handlebars for advanced templating. Collaborated on backend routing mechanisms and maintained server functionality on Heroku to ensure continuous operation.

- Developed BudgetBuddy, a MERN stack-based personal finance tracker, prioritizing intuitive budget management and goal setting. Implemented JWT-based authentication for robust data security. Deployed and maintained the application on Render and Netlify, ensuring flawless functionality and user experience on the web platform

University of Pennsylvania – System Engineer

November, 2022 – August, 2023

- Configured and maintained Linux-based servers to ensure optimal performance and reliability for critical applications.
- Developed Python scripts for automation tasks, increasing operational efficiency and reducing manual workload.
- Implemented security measures on Linux systems, including firewall configurations and intrusion detection systems, to enhance data protection.
- Conducted regular system monitoring and troubleshooting using Linux command-line tools, identifying and resolving issues proactively.
- Collaborated with cross-functional teams to deploy and manage containerized applications using Docker on Linux platforms.
- Assisted in the design and implementation of backup and disaster recovery solutions for Linux servers, ensuring data integrity and business continuity.
- Participated in system upgrades and patch management processes, keeping systems up to date with the latest security patches and software versions.

Ctrl+Shift

December 8, 2018 – May 8, 2021

- 2020-2021: Assumed a leadership role within a three-member team, orchestrating the design and development of a webpage centered on the Independence War of Bangladesh. Personally, undertook the entire coding process, harnessing proficiency in HTML, CSS, and JavaScript. Remarkably, the project was successfully executed within a condensed timeframe of less than 24 hours, meriting national finalist accolades and attesting to adept project management and coding prowess.

- 2019-2020: Collaborated as part of a two-person team to construct a mental health-themed website using HTML, CSS, and JavaScript. Developed an interactive website within two weeks, achieving finalist status.

- 2018-2019: Participated in a coding competition, employing basic HTML, CSS, and JS. The project spanned a few months and was undertaken for recreational purposes.

AP Computer Science A
September 5, 2020 – June 14, 2021

Acquired advanced Java skills, applying them to logic problems and various coding challenges.

AP Computer Science Principles P
September 2, 2019 – June 10, 2020

- Worked on projects demonstrating an advanced understanding of HTML, CSS, and JavaScript. Projects included a basic Calculator, measuring distances between planets, informational graphs sourced from diverse websites, a VR game in Unity, and Arduino coding.

EDUCATION

Bachelor of Physics, WGU
May 2024 - Current

Bachelor of Computer Science, Temple University
August 2021 – May 2024

Full-Stack Certificate, University of Pennsylvania
October 2023 – February 2023

Reference

Muadh Amzil,
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