Jonathan T. Sudarpo

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Availability: July - December 2024

Education:

Northeastern University, Boston, MA   Expected Graduation: July 2025
Khoury College of Computer Sciences   GPA: 3.81/4.0
B.S. in Computer Science   *Dean's List*
Relevant Courses: Object-Oriented Design, Algorithms and Data, Programming in C++, Discrete Structures, Fundamentals of Computer Science, Fundamentals of Digital Design and Computer Organization, Computer Systems, Logic and Computation, Machine Learning and Data Mining, Theory of Computation, and Natural Language Processing

Skills:

Languages: Java, C++, C, JavaScript, Python, Racket, Scheme, HTML, CSS, Swift, x86 Assembly
Applications: Git, IntelliJ, Eclipse, Replit, PyCharm, Sublime Text, Terminal, Visual Studio

Projects:

Natural Language Query   September 2023
- Designed and implemented a Python chatbot leveraging a proprietary AI model, adeptly converting natural language into SQL queries, streamlining data analysis processes.
- Seamlessly deployed the chatbot in a Streamlit web application, significantly boosting data accessibility and strategic decision-making for Telkomsel's Management.
- Optimized Telkomsel's database architecture, enhancing integration with the chatbot, which led to marked improvements in query efficiency and precision.

Image Processor   May 2023
- Developed a Java-based image processing application with an intuitive Swing library GUI.
- Engineered seven advanced image operations, including diverse filters and color transformations.
- Leveraged Java's IO and AWT libraries for robust image file management and precise pixel manipulation using 2D matrix operations.

Agile Task Manager   December 2022
- Constructed a C++ text-based project management tool with object-oriented programming.
- Streamlined a user profile system featuring four roles, facilitating the creation, viewing, and updating of project cards for teams and individuals.
- Employed the iomanip library to manage and arrange command-line outputs and inputs.

Experience:

Telkomsel, *Data Engineer Intern,* Jakarta, Indonesia   August - December 2023
- Developed and deployed a Python-based Natural Language Query AI system, processing over 1000 queries using Streamlit.
- Managed PostgreSQL server infrastructure to support over 100 staff, and actively engaged in 20+ internal meetings for collaborative development.
- Utilized Folium for advanced POI modeling and geographic data visualization.

Beemarket.id, *SWE*, Jakarta, Indonesia   September 2020 - June 2021
- Implemented a JavaScript and Firebase-based user authentication system, supporting 100+ users.
- Addressed and resolved 20+ website bugs, incorporating customer feedback to enhance user experience for consumers and vendors.
- Led weekly brainstorming sessions with the marketing team to innovate strategies for Instagram advertising campaigns.

Interests:

Passionate about songwriting, playing guitar/piano, golf, nature photography, and baking, each fostering creativity, precision, strategic thinking, and attention to detail.