# JASON THERAWAN
## SOFTWARE ENGINEER

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## OBJECTIVE

A highly motivated Computer Science student eager to apply my programming and problem-solving skills in a dynamic, project-based environment. I aim to contribute to creating impactful solutions while continuously growing my potential as an interdisciplinary thinker and developer.

## EDUCATION

- **BINUS University @Alam Sutera**
  Bachelor of Computer Science
  Expected graduation: June 2027
- **SMA Negeri 1 Bengkalis**
  Science Major
  Graduated At: June 2023

- **SMP Negeri 1 Bengkalis**
  Graduated At: June 2020
  Honor/Award: Best Student Award
- **SD Negeri 1 Bengkalis**
  Graduated At: June 2017
  Honor/Award: Best Student Award

## EXPERIENCE

- **Idea Originator & Project Leader | "PlantIt" Planner Web App**
  - Originated the concept for "PlantIt," a full-stack web application for personal planning, and led the project from ideation to a functional prototype.
  - Managed the project timeline, assigned tasks, and was the top contributor to the codebase.
- **Developer | Blink Bank Expense Tracker**
  - Developed "Blink Bank," a command-line based expense tracking system, entirely in C.
  - Implemented core functionalities including transaction logging, budget management, and data persistence by writing directly to files.
- **Lead IoT Developer | IoT & AI Project**
  - Top 40 Finalist, National Competition.
  - Served as the lead hardware designer and IoT developer, engineering and programming device components using MicroPython and C, as well as sending data through broker and ubidots.
  - Played a key role in the project's strategy and technical execution, leading to its recognition as a national finalist.
- **Software Contributor | ASP.NET E-Commerce Web App**
  - Collaborated on a team to build a web-based card shop using C# and the ASP.NET framework.
  - Implemented features following the MVC software engineering pattern, contributing to a robust and scalable application.
- **Lead Researcher | Comparative Analysis of Deepfake Detection Systems**
  - Directed a research initiative conducting a comparative analysis of state-of-the-art deepfake detection models, including DenseNet201, CapsNet, DeiT, and VQ-VAE.
  - Authored the research methodology and final report, demonstrating strong analytical and technical writing skills.
- **Software Contributor | JavaFX Refactoring Project**
  - Worked with a team to refactor and modernize a legacy desktop application, significantly improving code quality and maintainability using JavaFX.
- **Contributor & Web3 Developer | Web3 & AI Application**
  - 2nd Place Winner, National Competition.
  - Developed front-end components using React JS and Tailwind CSS, and worked on the backend with Motoko for the blockchain integration.
- **Project Leader & AI Developer | AI Recommendation System**
  - Led the complete project lifecycle, from ideation to realization, of a sophisticated AI-powered recommendation system.
  - Architected and developed the core machine learning models using Python, TensorFlow, and Keras, and built the user interface with HTML, CSS, and JavaScript.

## SKILLS

- **Languages:** Python, Java, C#, C, JavaScript, HTML/CSS
- **AI & Data Science:** TensorFlow, Keras, Numpy, Scikit-learn, Pandas, Streamlit
- **Web & Backend:** React JS, ASP.NET, Flask API, Node.js, Tailwind CSS
- **Database:** PostgreSQL
- **IoT & Hardware:** MicroPython, C for embedded systems
- **Developer Tools:** Git, GitHub, VS Code, Visual Studio, LucidChart, Miro
- **Methodologies:** Agile, MVC (Model-View-Controller), Code Re-engineering (Refactoring)
- **Soft Skills:** Leadership, Project Management, Strategic Planning, Public Speaking, Mentorship, Team Collaboration, Creative Problem-Solving

## VOLUNTEER & LEADERSHIP

- **Project Leader, Community Service**
  Led three separate character-building volunteer projects, organizing teams and executing community outreach initiatives.
- **Certified University Mentor**
  Officially recognized as a mentor, guiding students at all levels—including peers and seniors—in their academic journey and technical skill development.
- **President, High School English Club**
  Directed all club activities, managed a student leadership team, and organized school-wide events.
- **IT Staff, BINUS English Club**
  Provided technical support and managed digital resources for a large university organization.