Nathan Hartojo

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EDUCATION

Texas A&M University - College Station, TX **December 2024**

Bachelor of Science in Computer Science, Minor in Mathematics GPA 3.86/4.0

Selected Coursework: Software Engineering, Artificial Intelligence, Robotics & Spatial Intelligence, Cloud Computing, Database Systems, Foundations & Applications of Blockchain, Computer Systems, Data Structures & Algorithms

SKILLS

Full-Stack: PostgreSQL, JavaScript, React, Ruby On Rails, HTML/CSS, Tailwind, Express.js, Node.js
Development: WordPress, Linux, Git, Jira, Docker, Heroku, AWS, Figma
Languages: Python, C/C++, Java, Bash, Solidity

WORK EXPERIENCE

TGI Friday's (Ongoing) **Dallas, TX**
Technical Frontend Intern **May 2023 - Present**

- Redesigned website pages in collaboration with UI/UX teams leveraging Wordpress, HTML/CSS, JavaScript, and PHP
- Created Event Forms with **Sertifi API**, aiding Friday's Catering services to target a **$10M yearly revenue increase**
- **Boosted sales by 10%** through lunch test expansions and conversion rate analysis using G4 Analytics and MySQL
- Led bi-weekly SEO strategy sessions with BrightEdge, **improving homepage speed by 15%** through SearchIQ insights and image optimizations

PROJECTS

TAMU Amateur Radio Club Web Application - Github Repo **August 2022 - December 2023**

- Developed a comprehensive equipment inventory system for the TAMU W5AC Club, streamlining process for members to request and reserve items efficiently
- Deployed a **Rails**-based web application with a **PostgreSQL** database, assuming diverse responsibilities as designer, developer, and tester within an **Agile** team framework
- Integrated **Google OAuth** and **Devise User** Library for secure user authentication, enhancing system security
- Managed **CI/CD** via **Heroku/GitHub**, incorporating **SimpleCov**, **RuboCop**, and **Brakeman** for streamlined code deployments and quality assurance

Dynamic LiDAR-Based Human Tracking and Path Prediction System **November 2023**

- Designed a LiDAR data processing system using **Python** and **ROS2**, handling raw data to generate actionable insights
- Employed **rviz2** and **rqt_graph** for dynamic visualization and testing, ensuring accurate tracking and path prediction
- Implemented **DBSCAN** clustering algorithm for effective identification and tracking movement in point cloud data

NFT Marketplace Back-end **April 2023**

- Created a **Solidity**-based NFT marketplace on **Goerlieth Testnet** for secure digital asset transactions
- Engineered an **escrow mechanism** to ensure transaction security and trust between participants
- Applied **Hardhat** and **Ethers.js** for interaction script testing, boosting smart contract reliability

Panda Express Point-Of-Sale Web Application **November 2022 - December 2022**

- Incorporated **Google Translate** and **Maps APIs** to increase multi-language access and location services
- Spearheaded deployment of a full-stack web app on Render, applying **Agile** development practices
- Crafted a responsive web application with a Node.js, Express.js, HTML/CSS, Bootstrap, and PostgreSQL stack

AWARDS

TAMU Datathon - 2nd place - Kaggle Competition **October 2023**

- Utilized **TF-IDF** and **Word2Vec** for text interpretation, improved model input with diverse features
- Tuned **XGBoost** with **RandomizedSearchCV**; provided Marky with actionable content optimization insights
- Leveraged **Google Cloud Vision API** for image analysis, extracted dominant colors to assess color harmony

TAMUHack - 1st Overall Grand Prize **January 2023**

- Developed a **Flutter-based UI** with **Firebase** backend to enhance peer engagements with daily match prompts and selfies
- Validated a **20% increase** in student interaction through targeted pre- and post-app deployment surveys
- Utilized **Google ML Kit** for robust facial recognition to validate user selfies within app