Xander Trevor Tengari

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Education

BINUS University
Bachelor of Computer Science
GPA: 3.94 / 4.00
Tangerang, Indonesia
2024-2028

Petra 1 Christian Senior High School
Grade: 91.91 / 100.00
Surabaya, Indonesia
2021-2024

Experience

4th and 5th Semester Scholarship Mentor Binus University
Binus University
Tangerang, Indonesia
Feb 2026 - Present
- Mentored three senior students separately every week in data structures and algorithm

Bina Nusantara Computer Club Research and Development Staff
Tangerang, Indonesia
Oct 2025 - Oct 2026
- Mentored BNCC activists in Express.js Back-End Development
- Reviewed the registration website for BNCC's TechUp Seminar

Bina Nusantara Computer Club Data Mining Elite Team
Indonesia
Feb 2025 - Oct 2025
- Competition team where I actively participate in 30+ Data Mining and/or Machine Learning Competitions

Bina Nusantara Computer Club Technology Project Member 36 Project Manager
Tangerang, Indonesia
Jan 2025 - Feb 2025
- Led a project of making a hackathon website for Bina Nusantara Computer Club using Laravel

Bina Nusantara Computer Club Learning and Training & Research and Development Activist
Tangerang, Indonesia
Oct 2024 - Oct 2025
- Contributed in learning materials for C Programming and Machine Learning
- Contributed in BNCC microservices, specifically the learning service

Selected Projects

TangerangCast
Spearheaded the architectural design and project management of a geospatial weather forecasting platform that ingests live meteorological data across a 20×20 coordinate grid covering Tangerang. Engineered a high-performance Stacking Ensemble model combining XGBoost, LightGBM, and CatBoost with a Logistic Regression meta-model, serializing all weights into ONNX format for sub-second inference. Architected an MLOps Continuous Training (CT) pipeline via GitHub Actions and MLflow to retrain models on sliding-window data and hot-swap them into a VPS. Delivered an interactive Folium and Streamlit visualization dashboard backed by automated Docker CI/CD pipelines and PyTest suites.

StyloGuard
Scraped, cleaned, and curated a dataset of 3,900+ Indonesian news articles from top media outlets and synthetic imposter sets to pioneer digital authorship verification and ghostwriter detection. Benchmarked multiple language models before building a hybrid FeatureFusionTransformer that merges IndoBERT semantic embeddings with 52 hand-crafted, topic-blind stylometric features to eliminate topic-leakage. Implemented a dual-channel Explainable AI engine featuring self-attention heatmaps for semantic inspection and PyTorch Autograd (Gradient × Input) attribution for stylistic drivers. Deployed the full stack using FastAPI and Docker to deliver predictions to a responsive React/TypeScript frontend.

BNCC Opening Season Registration Website 2025 Back-End Development
Collaborated within a 3-person engineering team to architect the normalized relational database

schema (ERD) and back-end services for BNCC's annual member onboarding portal using Express.js 5, MySQL, and Prisma ORM. Implemented secure authentication and session management featuring JWT tokens, Bcrypt password encryption, and automated email verification workflows via Nodemailer. Developed a payment verification workflow that calculates dynamic fees based on campus regions, early-bird periods, and merit discounts, allowing applicants to upload payment receipts via Multer multipart handling. Built administrative review endpoints to audit receipt files, manage transaction states, and automatically generate official BNCC IDs upon payment approval.

BNCC Microservices: Learning Service Full-Stack Development
Contributed to BNCC's microservice architecture by developing the TypeScript Learning Service back-end and integrating it with the client-facing Member Portal. Engineered RESTful APIs using Express and Prisma ORM to govern class lifecycles, member enrollments, session attendance, and reschedule request workflows backed by role-based JWT authentication. Implemented secure HTTP cookie token management and Axios request interceptors to seamlessly communicate across the Auth, Learning, and Announcement services. Built a React 19 and Ant Design dashboard enabling members to monitor schedules, access study materials, and track session attendance in real time.

SteamBacklog Oracle
Built a personal full-stack application leveraging Java 21 and Spring Boot 3.3 to tackle gamer backlog paralysis through AI-powered curation. Practiced rigorous Spec-Driven Development (SDD) using OpenSpec to author formal technical proposals, schema specifications, and implementation checklists before coding. Integrated the Steam Web API with Spring Data JPA and PostgreSQL to synchronize owned catalogs and filter unplayed games, feeding them into Google Gemini to deliver mood and time-tailored recommendations. Implemented 85 automated unit and integration tests across JUnit 5 and Vitest.

Skills

- **Programming Languages: C/C++, C#, Python, JavaScript, TypeScript, Java, Golang**
- **Data Mining, Data Analysis, and AI/ML Development with Python**
- **Back-End Development: Laravel, Express.js, Next.js, Gin, Django, ASP .NET Core, Springboot**
- **Front-End Development: React.js, Next.js**
- **Database Management System: PostgreSQL, MySQL, Microsoft SQL Server (LocalDB)**
- **Testing & QA Automation: Jest, PyTest, Postman, Github Actions**
- **Collaboration Tools: GitHub, Word/Docs, Excel/Sheets, PowerPoint/Slides, Jira, ClickUp, Docker**

Language

- **Indonesian** — Native
- **English** — Advanced
- **Japanese** — Beginner

Achievements

University Achievements
- Semi-Finalist of Innovation Case Competition by Airlangga University (2026)
- AI Research Paper Accepted in ICTIM 2026 Conference (2026)
- Dean's List in Binus School of Computer Science (2026)
- Finalist of Datavidia 10.0 by Institut Teknologi Bandung (2026)
- 1st Place MineToday by IPB University (2025)
- Best Presentation and Finalist of DAC ITS by Sepuluh Nopember Institute of Technology (2025)
- Finalist of SCPC COMPFEST 17 by Universitas Indonesia (2025)